

ARTS SUBJECT DESCRIPTIONS

ARTS901 Master of Arts Research Methods

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus

Credit Points: 24

Contact Hours: 9

Assessment: Module 1: A total of 5,000-7,000 words which may include one short paper and one long essay. Module 2: This subject is chosen from the MA Coursework schedule. See subject descriptions for assessment Module 3: Survey of sources (annotated bibliography) (40%); Documentation of thesis proposal (40%); Oral presentation of thesis proposal (20%)

Subject Description: This subject provides students enrolled in the Master of Arts (Research) degree with training in the theories and research methodologies current in their chosen discipline areas. This training involves three modules of study: 1. a specific theory and methods module; 2. an advanced content-based module in the student's discipline area and 3. a module in which the student writes a detailed research proposal for the Master of Arts thesis. The precise content of these modules will be determined on a case-by-case basis, with the student and the Academic Program. It will be approved by the Associate Dean (Graduate Studies and Research). Students who have completed a Bachelor of Arts (Honours) with Class II, division ii or above, or have completed appropriate subjects in the Master of Arts by Coursework (or equivalent), may apply for Advanced Standing for this part of the course. Students who achieve a Credit average or higher in this subject will proceed to the thesis component of the degree. Students who achieve a Pass average in this subject will be offered the opportunity to transfer to the Master of Arts by Coursework with 24 credit points of Advanced Standing.

CAPS910 Globalisation and Citizenship

Autumn	Wollongong	On Campus
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Credit Points: 8

Contact Hours: Autumn 2hr seminar

Pre-requisites: None

Assessment: Research project 3500 words (40%); In-class document exercise 500 words (10%); Tutorial presentation and bibliographical review 1000 words (20%); Research proposal 1000 words (20%); Participation (10%)

Subject Description: This subject examines the effects of globalisation on representations of identity and citizenship in the Asia Pacific. We will discuss contemporary challenges to state authority coming from grassroots movements for democracy and universal human rights; women's groups; gay rights; ethnic minorities and indigenous peoples seeking self-determination; and the mass migration of workers and refugees. We will consider issues such as the conflict in Aceh, the plight of refugees, the role of organised crime, and the sexual reproduction of the nation.

CAPS911 Social Change and Development

Autumn	Wollongong	Flexible
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Credit Points: 8

Contact Hours: Autumn 1hr lecture, 2hr seminar

Assessment: Seminar presentation 20%, Research proposal 20%, Essay 50%, Class participation 10%

Subject Description: This subject is designed to examine major issues concerning economic development and social change in selected countries in the Asia-Pacific region and to cultivate analytic skills for research in this area. It provides an overview of contemporary social change and development from a variety of international perspectives. It focuses on concepts and theoretical perspectives, actors and institutions, development trajectories and strategies, and the multiple components of development. The issues include: the concepts and approaches to social change and development; the transition and large-scale transformation in Asia; the interplay between internal social agents, structures and dynamics, and international/global forces; the relationship between development and democratization, economic liberalization and political change in the framework of globalization.

CAPS915 Migration and Labour Mobility

Spring	Wollongong	Flexible
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Credit Points: 8

Contact Hours: Spring 1hr lecture, 2hr seminar

Assessment: Seminar presentation (1000 words) 20%, In-class reading exercise 10%, Research proposal (1000 words) 20%, Project (3500) 40%, Class participation 10%

Subject Description: This subject is concerned with the ways in which migration and labour mobility have influenced social transformation in the Asia-Pacific region. It examines these issues at the conceptual level and through case studies in specific countries. Labour migration is analysed both in terms of individual migration experiences and in relation to the broader social, political and economic effects on sending and receiving countries. Themes raised include the formation of multi-ethnic societies, the development of labour movements, citizenship rights for workers and increased women's migration. Cross-disciplinary approaches will be introduced to offer a range of theoretical approaches to these issues.

CAPS918 Special Project A

Autumn	Wollongong	Flexible
Spring	Wollongong	Flexible

Credit Points: 8

Contact Hours: Autumn 1hr supervision, Spring 1hr supervision

Pre-requisites: None

Assessment: Seminar presentation 10%, Research proposal 10%, Research Project (6,000 words) 80%

Subject Description: This subject provides students with an opportunity to engage in detailed research on a particular aspect of social change and development approved by the Co-ordinator of the Postgraduate Program. The project may focus on an issue, an actor (or actors), or a theoretical or methodological question which the student has previously encountered through reading or practical experience. Enrolment requires the Co-ordinator's approval, and may be determined by the availability of suitably qualified staff.

CAPS919 Special Project B

Autumn	Wollongong	Flexible
Spring	Wollongong	Flexible

Credit Points: 8**Contact Hours:** Autumn 1hr supervision, Spring 1hr supervision**Pre-requisites:** None**Assessment:** Seminar presentation 10%, Research proposal 10%, Research Project (6,000 words) 80%

Subject Description: This subject provides students with an opportunity to engage in detailed research on a particular aspect of social change and development approved by the Co-ordinator of the Postgraduate Program. The project may focus on an issue, an actor (or actors), or a theoretical or methodological question which the student has previously encountered through reading or practical experience. Enrolment requires the Co-ordinator's approval, and may be determined by the availability of suitably qualified staff.

CAPS935 Research Project in Social Change and Development

Annual	Wollongong	On Campus
Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus
Spring2005/ Autumn2006	Wollongong	On Campus

Credit Points: 16**Contact Hours:** Annual 1hr supervision, Autumn 1 hr Supervision, Spring 1 hr Supervision, Spring 2005 / Autumn 2006 1 hr supervision

Assessment: Production of 8000 word research report. Students assessed on: quality of literature search and data collection, quality of analysis and data processing, quality of presentation.

Subject Description: The subject will consist of the execution of, and report on, a research project in consultation with, and under the supervision of, a tutor nominated by CAPSTRANS. The students will utilize theoretical and empirical material as well as data-processing and analysis skills taught in other CAPSTRANS subjects. The subject will develop the students' skills in applied empirical research and deepen their understanding of concepts and procedures taught in other CAPSTRANS courses by utilizing them in the context of this research. This subject is a valuable addition to a student's professional portfolio.

ELL 901 English for Postgraduate Studies 1

Autumn	Wollongong	On Campus
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Credit Points: 6**Contact Hours:** Autumn 4hrs: 1 x 2hr lecture; 1 x 2hr tutorial per week**Pre-requisites:** None**Exclusions:** ELL 902

Assessment: Writing Skills Assignment (15%) Critical Reading Exercises (10%) Essay (15%) 1000-1500 words Exam (25%) Individual Oral Presentation (15%) Group Oral Presentation (10%) Participation (10%)

Subject Description: This subject provides an overview of the kind of English used in the academic context, particularly in Postgraduate studies. It is designed for Non-English Speaking Background (NESB) students who are wanting an

induction into English grammar, micro and macro writing skills and oral skills for postgraduate studies. This subject aims to identify and practice important skills related to postgraduate academic English. These skills include grammar at the level of sentence, paragraph and text; writing conventions; skills in paraphrasing and summarising, as well as practice in some of the common text types used in postgraduate writing and oral presentations including reports, explanations and expositions.

ELL 902 English for Postgraduate Studies 1 (Arts)

Autumn	Wollongong	On Campus
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Credit Points: 8**Contact Hours:** Autumn 4hrs: 1 x 2hr lecture; 1 x 2hr tutorial per week**Pre-requisites:** None**Exclusions:** ELL 901

Assessment: Writing Skills Assignment (15%) Critical Reading Exercises (10%) 2 x Essays (20%) (1500-2000 words) Exam (20%) Individual Oral Presentation (15%) Group Oral Presentation (10%) Participation (10%)

Subject Description: This subject provides an overview of the kind of English used in the academic context, particularly in Postgraduate studies. It is designed for Non-English Speaking Background (NESB) students who are wanting an induction into English grammar, micro and macro writing skills and oral skills for postgraduate studies. This subject aims to identify and practice important skills related to postgraduate academic English. These skills include grammar at the level of sentence, paragraph and text; writing conventions; skills in paraphrasing and summarising, as well as practice in some of the common text types used in postgraduate writing and oral presentations including reports, explanations and expositions.

ELL 903 English for Postgraduate Studies 2

Spring	Wollongong	On Campus
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Credit Points: 6**Contact Hours:** Spring 4hrs: 1 x 2hr lecture; 1 x 2hr tutorial per week**Pre-requisites:** None**Exclusions:** ELL 904

Assessment: Writing assignments: 1. Exposition Rewrite 10% (300-500wds), 2. Information Report 10% (300-500wds), 3. Comparative Report 15% (800 wds), 4. Persuasive Essay 25% (1000 wds); Exam 20%; Portfolio (collected study notes) (10%); Participation (10%)

Subject Description: This subject provides an overview of the kind of English used in the academic context, particularly in Postgraduate studies. It is designed for Non-English Speaking Background (NESB) postgraduate students who are wanting an induction into writing and speaking for postgraduate studies. This subject aims to identify and discuss important issues related to the culture of postgraduate education and to develop academic skills relevant to postgraduate studies and thesis writing. Students will develop a critical and analytical stance to research and learning, an understanding of how the grammatical resources of English are employed to achieve different purposes within postgraduate studies, and expertise and confidence in using a range of resources for learning.

ELL 904 English for Postgraduate Studies 2 (Arts)

Spring Wollongong On Campus

Credit Points: 8**Contact Hours:** Spring 4hrs: 1 x 2hr lecture; 1 x 2hr tutorial per week**Pre-requisites:** None**Exclusions:** ELL 903

Assessment: Writing assignments: 1. Exposition Rewrite 10% (300-500wds), 2. Information Report 10% (500-800wds), 3. Comparative Report 15% (1000 wds), 4. Persuasive Essay 25% (1500 wds); Exam 20%; Portfolio (collected study notes) (10%); Participation (10%)

Subject Description: This subject provides an overview of the kind of English used in the academic context, particularly in Postgraduate studies. It is designed for Non-English Speaking Background (NESB) postgraduate students who are wanting an induction into writing and speaking for postgraduate studies. This subject aims to identify and discuss important issues related to the culture of postgraduate education and to develop academic skills relevant to postgraduate studies and thesis writing. Students will develop a critical and analytical stance to research and learning, an understanding of how the grammatical resources of English are employed to achieve different purposes within postgraduate studies, and expertise and confidence in using a range of resources for learning.

ENGL903 Research Methods

Autumn Wollongong On Campus

Credit Points: 8**Contact Hours:** Autumn 3 hour seminar per week**Assessment:** To be advised

Subject Description: Designed to enable students to undertake a sustained reading program, often in parallel with an existing subject in Contemporary Literary Issues under close supervision. Enrolment, selection of appropriate subject or themes and readings, are subject to the approval of the Convenor of Program.

ENGL906 Modernism's Others

Autumn Wollongong On Campus

Credit Points: 8**Contact Hours:** Autumn 3 hour seminar per week

Assessment: Two seminar essays 2000 words, each 30%; Major Essay 3000 words 40%

Subject Description: This subject focuses on writing from England, Europe and the Americas produced in the early 20th century – a period marked by radical questioning of the categories that defined and often determined social and self construction. Writers questioned what is meant to be human, to be civilized; they raised questions about the validity of rudimentary classification of individuals by gender, class, race, sexuality; they were fascinated with the allure of 'the other' – against which the self and its community of belonging is defined. Some writers felt themselves to be othered by western modernity; many writers feeling disaffected or disenchanting with 'the west' searched for ways to 'make it new' by looking to other cultures as represented by 'the east' or 'the primitive'; a number of modernists wrote from the position of 'the other'.

ENGL913 Literature, Memory and Forgetting

Spring Wollongong On Campus

Credit Points: 8**Contact Hours:** Spring 3hr seminar

Assessment: Main essay 30%; seminar presentation and write up 40%; journal 20%; and class participation 10%

Subject Description: This subject examines the role of memory in the creation of literature, and the role of literature in the creation of personal and cultural memory. Beginning with a consideration of the notion of writing as a form of memory, it goes on to examine memory and history, identity, and national mythologies, amnesia in fiction, and futuristic memories. It examines a historically and culturally diverse range of texts, but emphasises more recent writings. The subject also covers a range of theoretical and historical perspectives on memory and writing, such as those offered by poststructuralist, feminist, and postcolonial theorists.

ENGL916 US Literature: Modernity and Postmodernity

Autumn Wollongong On Campus

Credit Points: 8**Contact Hours:** Autumn 3 hour seminar per week

Assessment: Presentation and brief essay (2500 words) 35%; Journal (1000 words) (15%); Major essay (3500 words) 40%; Participation (10%)

Subject Description: The subject examines a variety of twentieth-century U.S. fictional, autobiographical and journalistic prose works in relation to generic, cultural and political developments. A particular focus of the course is critical examination of the concepts of modernity, modernism, postmodernity, and postmodernism. Other topics of discussion include: the construction and articulation of racial, classed, sexual, and gendered identities; contexts of the production and consumption of individual texts; tensions and connections between realism and experimentalism as modes of writing practice; the relations of literary genres to other media such as film and TV.

ENGL918 Special Topic

Spring Wollongong On Campus

Autumn Wollongong On Campus

Credit Points: 8**Contact Hours:** Spring 3 hr seminar, Autumn 3hr Seminar

Subject Description: Directed reading, research and other investigative activities at an advanced level in a field of study selected by the student in consultation with the English Studies Postgraduate Co-ordinator and approval prior to enrolling from the Convenor of Program.

ENGL921 Turning Points: An Introduction to Post-colonial Literary History

Autumn Wollongong On Campus

Credit Points: 8**Contact Hours:** Autumn 3 hour seminar per week

Subject Description: The course will survey novels that are the first in their field or which have become key points of reference in discussions of post-colonial writing.

The subject asks such questions as: How does newness occur; spontaneous generation; socio-historical determinism; killing off the father; creative misprision; evolution; intertextual ars combinatoria; retrospection from some pre-conceived end? What are the possibilities for post-colonial texts 'intervening' in literary practice and/or social thought to imaginatively effect cultural liberation? What are we doing when we write literary history, design courses? What use do we make of reading texts? Can we institutionalise 'reading (and writing) against the grain'?

ENGL930 History and Romance in Early Modern Britain

Credit Points: 8

Not on offer in 2005

Assessment: Essay 1 2500 words (50%); Essay 2 2500 words (50%)

Subject Description: The subject focuses on texts which deal with history and romance in late Tudor and Stuart England, looking particularly at the way such texts deliberately lend themselves to varying readings, how they become part of the ideology of a culture, legitimating or questioning the powerful, and how both well-known and less familiar men and women writers (and readers) dealt with issues presented in the trappings of history and romance.

ENGL933 Early Women Writers

Spring Wollongong On Campus

Credit Points: 8

Contact Hours: 3hrs per week

Assessment: 1st seminar presentation and write-up (45%), 2nd seminar presentation and write-up (45%), Participation (10%)

Subject Description: This subject looks at the work of selected women writers from the late-sixteenth century to the early eighteenth century. The texts represent a variety of different types of writing: fiction, poetry, drama, diaries, letters and autobiographical writings. The subject will examine the establishment of the female writing self within the appropriate cultural structure and historical context, and the engagement of that self with the social and literary conventions of the time. The genres and writers studied are: Fiction- Margaret Cavendish, Aphra Behn. Drama- Elizabeth Cary. Letters- Dorothy Osborne, Mary Wortley Montagu. Autobiography- Alice Thornton, Anne Clifford, Margaret Hoby, Anna Trapnel, Katharine Evans and Sarah Cheevers, Hannah Allen, Mary Carleton. Poetry- Aemilia Lanyer, Mary Wroth, Isabella Whitney. The subject can be seen as a logical follow-up for interested students from two 300 level subjects in the English Major, ENGL365 Nineteenth Century Women's Writing and ENGL345 Twentieth Century Women Writers.

ENGL944 The Dominant Sound: Australian Women Novelists Between the Wars

Credit Points: 8

Not on offer in 2005

Subject Description: The aims of this subject are to introduce students to the literature of the twenties, thirties and forties written by women in Australia, to explore its cultural and ideological background and to encourage students to analyse a number of unfamiliar texts and examine their place within Australian history.

INTR900 International Law and Diplomacy

Autumn Wollongong On Campus

Credit Points: 8

Contact Hours: 3hr seminar

Assessment: Research essay and final examination.

Subject Description: Sources of international law; the relationship between domestic law and international law; the law of treaties; the structure of the international legal system; statehood, state jurisdiction, state responsibility, nationality and refugees.

INTR905 Case Studies in Diplomacy

Spring Wollongong On Campus

Credit Points: 8

Contact Hours: Spring 3 hrs per week

Assessment: Three diplomatic communiqués (1000 words each) (30%); Minor Essay 1500 (20%); Research project of 3000 words (50%)

Subject Description: This subject deals with important examples of modern international diplomatic behaviour. It presents an overview of diplomatic practice including various theoretical and historiographical concerns. The subject examines how diplomats write and how they present national positions.

INTR910 Politics of International Relations

Autumn Wollongong On Campus

Credit Points: 8

Contact Hours: 3hrs per week

Assessment: Minor Essay 2500 words (20%); Research Essay 5000 words (40%); Exam (30%); Class participation (10%)

Subject Description: Major theoretical traditions examined include realism, liberalism, neo-realism and neo-liberalism, rationalism, Marxist and neo-Marxist variants, critical theory, post-modernism, constructivism, and feminism. The subject then examines the end of the Cold War, the demise of bipolarity, the emergence of unipolarity, and assesses the effectiveness of the United Nations, explores the north/south divide and ponders some of the causes of terrorism. It examines modern peacekeeping, rogue states and the prosecution of the War on Terror. Interspersed in the subject will be arguments over the alleged decline of the nation state, the structures and institutions that regulate the international economy, and some current opinions on hegemony.

INTR911 Politics in the South Pacific

Spring Wollongong On Campus

Credit Points: 8

Contact Hours: Spring 3 hours per week

Assessment: Minor Essay 2500 words (20%); Research Essay 5000 words (40%); Exam (30%); Class participation (10%)

Subject Description: The subject analyses Politics in and among South Pacific island countries, regional and sub-regional co-operation, relations with external actors, including governments, international organisations, non-governmental organisations and multi-national corporations. It explores vulnerability and multi-dimensional security and the politics of race, as well as ethnic and class relations.

INTR912 Pacific Rim and Pacific Basin

Spring Wollongong On Campus

Credit Points: 8**Contact Hours:** Spring 3 hours per week**Assessment:** Minor Essay 2500 words (20%); Research Essay 5000 words (40%); Exam (30%); Class participation (10%)**Subject Description:** The subject analyses aspects of relations between advanced, industrialising and less developed countries on the Pacific Rim and in the Pacific Basin. The subject addresses significant issues in defence, aid, trade, investment and other kinds of international interactions. Particular attention is paid to nuclear and environmental issues; security and vulnerability; colonialism and self-determination as well as Asia-Pacific and other forms of international economic co-operation.**INTR920 Advanced International Economic Relations B**

Spring Wollongong On Campus

Credit Points: 8**Contact Hours:** Spring 2 lectures, 1 tutorial per week**Exclusions:** Not to count with ECON982 or ECON924**Subject Description:** The subject examines policy issues in the international economy especially as they affect the Asian-Pacific region. The roles of international economic organizations such as the IMF, World Bank and GATT are emphasised as well as issues such as free trade, protectionism, exchange rate determination and international capital flows. Options available to individual countries for international economic policy are explored.**INTR931 Public Policy**

Autumn Wollongong On Campus

Credit Points: 8**Contact Hours:** Autumn 3 hours per week**Assessment:** Email discussions 20%; Policy submission 30%; Research essay 50%**Subject Description:** This subject examines a broad range of policy areas in the (post) modern world. Students are expected to select issues for study from a range of policies including: media, industrial restructuring, political economy, education, health care, transport, defence, policing, urban and regional renewal, housing and the arts. Students are encouraged to study the impact of Globalisation and global trends on the creation and execution of public policy in advanced industrial countries. The subject offers an approach to policy studies, which focuses on quality of life issues and outcomes. An emphasis on recent developments in Australian public policy is maintained within a comparative perspective.**INTR940 Case Study in International Politics A**

Autumn Wollongong On Campus

Credit Points: 8**Contact Hours:** Autumn Min 1 hour per week**Assessment:** Research project 7500 words (100%)**Subject Description:** This subject provides students with an opportunity to engage in detailed research on a particular aspect of international relations approved by the Co-ordinator of the Postgraduate Program in International Relations. The project may focus on an issue, an actor (or actors), or a

theoretical or methodological question that the student has previously encountered through reading or practical experience. Enrolment requires the Co-ordinator's approval, and may be determined by the availability of suitably qualified staff.

INTR941 Case Study in International Politics B

Spring Wollongong On Campus

Credit Points: 8**Contact Hours:** Spring Min 1 hour per week**Assessment:** Research project 7500 words (100%)**Subject Description:** This subject provides students with an opportunity to engage in detailed research on a particular aspect of international relations approved by the Co-ordinator of the Postgraduate Program in International Relations. The project may focus on an issue, an actor (or actors), or a theoretical or methodological question that the student has previously encountered through reading or practical experience. Enrolment requires the Co-ordinator's approval, and may be determined by the availability of suitably qualified staff.**INTR957 Postwar Economic and Social Development in the Asia-Pacific**

Autumn Wollongong On Campus

Credit Points: 8**Contact Hours:** 3 hours per week**Assessment:** Minor Essay 2500 words (20%); Research Essay 5000 words (40%); Exam (30%); Class participation (10%)**Subject Description:** This subject concerns the relationship between the state and economic development in East Asia, South East Asia and the Pacific Islands. Case studies may include Taiwan, South Korea, Singapore, Indonesia, Malaysia, Papua New Guinea, Fiji and the Pacific Islands, Thailand, Cambodia and the Philippines. This subject reviews development theory and tests some generally held assumptions concerning the role of the free market and democracy in economic development.**INTR960 Research Project in International Relations**

Annual Wollongong On Campus

Spring2005/

Autumn2006 Wollongong On Campus

Credit Points: 16**Contact Hours:** Annual 1hr per week, Spring 2005 / Autumn 2006 1hr per week**Assessment:** Research project 12000-15000 words (100%)**Subject Description:** A detailed analysis of a significant actor, issue or period in international relations, drawing on research relevant primary and other sources, bodies of theory and/or comparative materials. Enrolment requires the prior approval of the Co-ordinator of the Postgraduate Programme in International Relations and may depend on the availability of appropriate sources and suitably qualified staff.

INTR961 Research Project in International Relations

Spring2005/

Autumn2006 Wollongong On Campus

Annual Wollongong On Campus

Credit Points: 16**Contact Hours:** Spring 2005 / Autumn 2006 1 hour per week, Annual 1 hour per week**Assessment:** Research project 12000-15000 words (100%)**Subject Description:** A detailed analysis of a significant actor, issue or period in international relations, drawing on research relevant primary and other sources, bodies of theory and/or comparative materials. Enrolment requires the prior approval of the Co-ordinator of the Postgraduate Programme in International Relations and may depend on the availability of appropriate sources and suitably qualified staff.**PHIL905 Research Project**

Spring Wollongong On Campus

Autumn Wollongong On Campus

Annual Wollongong On Campus

Spring 2005/

Autumn 2006 Wollongong On Campus

Credit Points: 16**Contact Hours:** Spring as required, Autumn as required, Annual, Spring 2005 / Autumn2006**Assessment:** 10,000 - 12,000 word research essay 100%**Subject Description:** Identification, development and execution of a directed research project under the supervision of a member of the Philosophy program on a topic in Applied Ethics. Students will pursue an extended research project that applies ethical concepts and theory to significant problems in applied ethics. The subject will develop students' capacities for critical analysis, ethical evaluation and conceptual analysis in relation to a specific ethical issue. This will deepen their understanding of concepts and theories taught in the MA (Applied Ethics) subjects, through using them in directed research. This subject may be a valuable addition to a student's professional portfolio.**PHIL935 Applied Ethics**

Autumn Wollongong On Campus

Credit Points: 8**Contact Hours:** Autumn 2hr seminar per week**Pre-requisites:** Bachelor degree (pass or honours) in any field, or equivalent.**Exclusions:** PHIL206**Assessment:** Tutorial and Online Participation (10%); Essay 1 (3000 words) 45% and Essay 2 (3000 words) 45%, or Essay 3 (6000 words) 90%**Subject Description:** A systematic study of a range of problems of applied ethics. Among the topics for discussion will be a selection of the following: Discrimination and Affirmative Action; Abortion; Sexual Issues; Warfare; Suicide and Death.**PHIL955 Theoretical Ethics**

Spring Wollongong On Campus

Credit Points: 8**Contact Hours:** Spring 2hr seminar per week**Pre-requisites:** Bachelor degree or equivalent**Exclusions:** PHIL251 or PHIL301**Assessment:** Tutorial and Online Participation (10%) Essay 1 (3000 words) (45%) Essay 2 (3000 words) (45%) Or Essay 3 (6000 words) (90%)**Subject Description:** A critical study of fundamental issues in moral philosophy. Among the topics discussed will be a selection of the following: moral relativism; consequentialism; moral motivation; egoism and altruism; morality and rationality.**PHIL965 Bioethics**

Spring Wollongong On Campus

Credit Points: 8**Contact Hours:** Spring 2hr seminar per week**Pre-requisites:** Bachelor degree or equivalent**Assessment:** Tutorial and Online Participation (10%) Essay 1 (3000 words) (45%) Essay 2 (3000 words) (45%) Or Essay 3 (6000 words) (90%)**Subject Description:** Systematic study of a range of bioethical problems. Topics will include: euthanasia; physician-assisted suicide; reproduction technology; anonymous donor programs; genetic counselling, screening and testing; surrogacy; embryo and foetal research; health resources allocation; organ transplantation; experimentation involving human subjects; research involving animals; the nature of professional ethics.**PHIL976 Ethical Issues in Research**

Autumn Wollongong On Campus

Credit Points: 8**Contact Hours:** Autumn 2hr seminar per week**Pre-requisites:** Bachelor degree (pass or honours) in any field, or equivalent**Assessment:** Seminar Participation (10%); Essay 1 (3000 words) (45%) and Essay 2 (3000 words) (45%), or Essay 3 (6000 words) (90%)**Subject Description:** Examines areas of ethical concern in different kinds of research, including concepts of research misconduct (e.g. research fraud, manipulation of data, plagiarism), ethical justification of research (especially research that may involve risk or burdens for humans or nonhuman animals) and ethical review of research. Topics discussed include: consent; confidentiality; fraud; disadvantaged participants; use of research findings; institutional ethics committees; codes of research practice and responsibilities in research.**PHIL986 Applied Ethics Topic**

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 8**Contact Hours:** Autumn 2hr seminar per week, Spring 3 hours per week**Pre-requisites:** Bachelor degree or equivalent.**Assessment:** Seminar Participation 10%; Essay 1 (3000 words) (45%) and Essay 2 (3000 words) (45%), or Essay 3 (6000 words) (90%)**Subject Description:** Offers students enrolled in the MA (Applied Ethics) the opportunity to investigate applied ethics issues at an advanced level. Students wishing to enrol must

discuss their proposal with the Convenor of Program. Normally this is a reading program. Content and assessment is determined by the supervisor and student.

PHIL995 Environmental Ethics

Autumn Wollongong On Campus

Credit Points: 8

Contact Hours: Autumn 2hr seminar per week

Pre-requisites: Bachelor degree or equivalent. Not to count with PHIL256

Assessment: Seminar Participation 10%; Essay 1 (3000 words) (45%) and Essay 2 (3000 words) (45%), or Essay 3 (6000 words) (90%)

Subject Description: A systematic study of problems in environmental ethics. Topics include the place of humankind in nature; the status of non-human animals and their use in research and as food; our moral obligations to the 3rd world and to future generations, 'deep' versus 'shallow' theories of environmental ethics.

SOC 904 Principles of Social Impact Assessment

Spring Wollongong On Campus

Credit Points: 8

Contact Hours: Spring 2hrs seminar per week

Assessment: Continuous assessment 60%; project 40%

Subject Description: This subject introduces students to the basic principles and practices of social impact assessment (SIA). The subject includes: the history and theory of SIA; preparation and planning for SIA; scoping studies: implementing and undertaking SIAs; the role of the SIA professional; and project evaluation.

STS 903 Minor Thesis

Spring Wollongong On Campus

Autumn Wollongong On Campus

Credit Points: 24

Contact Hours: Spring 3 hrs per week, Autumn 3 hrs per week

Pre-requisites: Approval of Convenor of Program

Assessment: Thesis

Subject Description: A thesis embodying the results of an original investigation under the supervision of a staff member. The topic and programme of research must be approved by the Convenor of Program.

STS 916 Theories and Methods of Science and Technology Studies

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 8

Contact Hours: Autumn by arrangement, Spring by arrangement

Pre-requisites: Approval of Convenor of Program

Assessment: Essays, presentations and class participation

Subject Description: Students will study topics appropriate to their field of special interest, subject to the approval of the Convenor of Program.

STS 917 Advanced Topics in Science and Technology Studies

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 8

Contact Hours: Autumn 3 hours per week, Spring 3 hours per week

Pre-requisites: Approval of Convenor of Program

Assessment: Essays, presentations and class participation

Subject Description: Students will study topics appropriate to their field of special interest, subject to the approval of the Convenor of Program.

STS 920 The Dynamics of Science and Technology

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 8

Contact Hours: Autumn By arrangement, Spring By arrangement

Pre-requisites: Approval of Convenor of Program

Assessment: Essays, presentations and class participation

Subject Description: This subject introduces current research and theory in the social dynamics of science and technology. It examines alternative explanations of scientific and technological change and how they inform the promotion and regulation of science and technology. It takes a variety of case studies and considers the implications of this work for those involved in managing, or developing policies for, science and technology.

STS 929 Studies in Resource and Environmental Policy

Credit Points: 8

Not on offer in 2005

Pre-requisites: Approval of Convenor of Program or Subject Coordinator

Assessment: Essays, presentations and class participation

Subject Description: This subject examines the social, economic and political processes through which environmental policy is developed. Case studies will be used to understand environmental impacts of technological development. Theoretical perspectives may include the politics and sociology of scientific controversy, global, national and regional developments in environmental regulation, theories of state regulation and intervention, and the choice and negotiation of different environmental strategies.

STS 946 Management of Technological Change

Credit Points: 6

Not on offer in 2005

Pre-requisites: Approval of Convenor of Program

Assessment: Essays, presentations and class participation

Subject Description: This subject examines concepts and techniques available for managing technology in private and public sector organisations in the context of the changing role of technology in the national and global economy, and the implications of these changes for national, industry and

company strategies. The subject covers issues of technology strategy formulation and management, marketing of technology, models and mechanisms of government intervention, new manufacturing technologies, work organisation and skill formation, and management information systems.

STS 947 Case Studies in Science and Technology Policy

Spring	Wollongong	On Campus
Autumn	Wollongong	On Campus

Credit Points: 6

Contact Hours: Spring by arrangement, Autumn by arrangement

Pre-requisites: Approval of Convenor of Program

Assessment: Essays, presentations and class participation

Subject Description: This subject provides practical insights and experience in analysis, policy formulation, implementation and monitoring of scientific or technological changes and their impacts. A case study is chosen according to student interests and expertise, and staff availability. Issues might include: a hazard control policy; a set of national research priorities; a set of performance indicators for research or education funding; or negotiating the purchase and implementation of a major computing system.

COMMERCE SUBJECT DESCRIPTIONS

ACCY850 Public Sector Financial Management and Controls

Credit Points: 6

Not on offer in 2005

ACCY901 Accounting for Managers

Spring Wollongong On Campus

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Spring 2S, 1CL, Autumn 2S, 1CL

Exclusions: ACCY101, ACCY190 or ACCY100 and ACCY102

Assessment: See Subject Outline

Subject Description: The interpretation and utilisation of the major types of reports and analyses prepared by accountants for management decision making.

ACCY903 Theoretical Foundations of Research

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Autumn 2S, Spring 2S

Assessment: See Subject Outline

Subject Description: The nature of theory, research and theory formation. A study of the methods used in theory formation, and of attempts to formulate theories of accounting and finance.

ACCY904 Financial Accounting

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Autumn 2S

Assessment: See Subject Outline

Subject Description: An in-depth study of the basis of external financial reporting, including asset valuation and periodic profit measurement. A study of the elements of financial accountancy and their communication in accounting reports.

ACCY905 International Accounting

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Spring 2S

Assessment: See Subject Outline

Subject Description: Differences in accounting thought and standards between countries. Influence of national outlook and policies and of economic infrastructure on accounting practice. Uniform systems of accounting. Corporate growth and its impact on accounting and auditing. Comparative study of auditing and reporting standards, and international aspects of public accounting practice. The multi-national corporation. The effect of changing price levels on accounting for international operations.

ACCY906 Issues in Financial Accounting

Credit Points: 6

Not on offer in 2005

Assessment: See Subject Outline

Subject Description: Contemporary issues in financial reporting to external parties, including accounting for different classes of assets, liabilities and equities. Legal, institutional and professional reporting requirements including proposals for improvement in accounting principles applied in practice.

ACCY907 Empirical Research Methods

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Autumn 2S

Assessment: See Subject Outline

Subject Description: The subject provides an overview of the ways accounting and finance researchers identify, formulate and investigate empirical questions in accounting and finance. Subjects include the criteria adopted to select research projects, issues of experimental design, validity threats, measurement problems and statistical analysis. Selected published accounting and finance research will be used to illustrate established methods of empirical research.

ACCY908 Applied Financial Accounting

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Spring 2S

Assessment: See Subject Outline

Subject Description: Advanced problems in external financial reporting, including accounting for groups of companies, price level accounting and reporting theory involving consideration of taxation and economic implications.

ACCY909 Comparative Accounting Systems

Credit Points: 6

Not on offer in 2005

Assessment: See Subject Outline

Subject Description: An in-depth examination of the patterns of accounting development in different national political environments. Key variables determining the differential accounting development patterns and their implications, in particular, for multinational reporting, will be critically evaluated. Approaches for resolving the problems posed by the diversity of accounting systems will also be considered.

ACCY910 Issues in International Accounting

Credit Points: 6

Not on offer in 2005

Assessment: See Subject Outline

Subject Description: Specific current issues that may be examined in-depth include harmonisation of accounting standards and practices, foreign currency accounting, internal control and performance evaluation problems in foreign subsidiaries, and international transfer pricing problems. Content may be revised subject to the currency of specific issues and in light of student interests.

ACCY913 Management Accounting

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Autumn 2S

Assessment: See Subject Outline

Subject Description: The conceptual basis of management accounting and information systems. An examination of traditional and alternative theories and approaches shaping organisational and behavioural aspects of management accounting, including the contingency approach, the agency approach, control system theories, activity based accounting and critical accounting approaches.

ACCY914 Management Planning and Control Systems

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Autumn 2S

Assessment: See Subject Outline

Subject Description: An in-depth analysis of selected aspects of the design and evaluation of management accounting, planning and control systems in both the private and public sectors.

ACCY916 Studies in Controllership

Credit Points: 6

Not on offer in 2005

Assessment: See Subject Outline

Subject Description: The role and functions of the Chief Accounting Officer. Designing, installing and managing accounting systems - both financial and managerial. Specific problem areas in controllership, as depicted in selected case studies.

ACCY918 Applied Management Accounting

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Spring 2S

Assessment: See Subject Outline

Subject Description: An in-depth applied analysis of selected topics in management accounting. Topics chosen could include decision theory and analysis, financial model building, cost prediction and control techniques, pricing, management accounting systems design, and the interrelationships between management and the management accounting system. Theoretical concepts developed in other management accounting subjects will be expanded as needed to support the complex applications being studied.

ACCY931 Advanced Decision Support Systems

Credit Points: 6

Not on offer in 2005

Assessment: See Subject Outline

Subject Description: This subject will examine the theoretical foundations for Decision Support Systems. Consideration will be given to architectural and environmental factors in designing Decision Support Systems. Practical accounting applications will be provided. Empirical studies and recent developments in business will be selected for in-depth review.

ACCY933 Studies in Information Systems in Accounting

Credit Points: 6

Not on offer in 2005

Assessment: See Subject Outline

Subject Description: Theoretical and practical aspects of contemporary information theory in accounting system evaluation, design, implementation and management, accounting and associated computer applications, sociological and ethical implications and research issues are explored.

ACCY936 Management and Information Systems

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Autumn 1S, 1CL, Spring 1S, 1CL

Assessment: See Subject Outline

Subject Description: The effective use and control of information systems, particularly computer-based information systems, and the likely impact of developments in this area on management functions and how managers carry out those functions.

ACCY943 Auditing and Accounting Information Systems

Credit Points: 6

Not on offer in 2005

Assessment: See Subject Outline

Subject Description: The general principles of auditing applied to the audit of computer-based accounting systems and the use of computers as an auditing tool. Particular emphasis on the positive aspects of auditing and internal control, including their contribution towards improvements in: (a) management functions such as planning; and (b) the quality (both real and perceived) of information flows within an entity and between it and external parties.

ACCY944 Issues in Auditing

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Spring 2L, 1T

Assessment: See Subject Outline

Subject Description: An in-depth examination of contemporary topics in auditing with emphasis on controversial and theoretical issues, including social and ethical issues, role of quantitative techniques in the audit function, continuous auditing concept, uncertainty reporting, audit performance evaluation, extension of attest function and public sector auditing.

ACCY950 Introductory Forensic Accounting

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Refer to Faculty

Subject Description: This subject provides a broad based overview of forensic accounting within a corporate governance and accountability framework and is designed for progression to more specific topics. Subject content will deal with statutory regulation of corporations and other economic

entities including not-for-profit entities in Australia and the Asia-Pacific Region. It will provide an overview of the role of accounting, audit and finance in regulatory and corporate governance frameworks. Students will be introduced to the nature of forensics and its role in the regulatory framework as well as within the legal and ethical framework of corporate governance including the role and duties of directors, executive officers, chief financial officers and management.

ACCY951 Forensic and Litigation Framework

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Refer to Faculty

Subject Description: This subject will introduce students to the nature and purpose of forensic systems including risk assessment and management and audit procedures and guidelines. It will draw on accounting and audit standards and guidelines issued by CPA Australia, ICAA and IFAC. The subject will facilitate the acquisition of skills aimed at identifying and assessing an organisation's risk profile and appropriate responses. It will also lay the foundations for the development of knowledge and understanding of the judicial system, law of evidence, preparation of working papers and expert witness preparation and presentation of evidence.

ACCY952 Fraud and Failure

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Refer to Faculty

Pre-requisites: ACCY950 and ACCY951

Subject Description: This subject will build on the knowledge and skills acquired in ACCY 950 Introductory Forensic Accounting and ACCY 951 Forensic and Litigation Framework. It draws on case studies and actual instances of fraud and other irregularities, corporate governance failures and mismanagement in the corporate, financial and not-for-profit sectors. This material will be used to develop skills for identifying suspicious or irregular activities and analysis and investigation of those activities. The subject matter will include detailed analysis of transactions and events in the context of asset fraud and mismanagement, financial statement manipulation and banking and financial markets transactions and document fraud including cheques, credit cards, letters of credit and securities.

ACCY953 Investigative Processes

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Refer to Faculty

Pre-requisites: ACCY950 & ACCY951

Subject Description: This subject introduces students to analytical and statistical techniques and systems aimed specifically at identifying/predicting the presence of irregularities, fraudulent and non-fraudulent, in the activities of corporate, financial and not-for-profit entities. Students will acquire knowledge and skills in non-quantitative, simple quantitative and advanced quantitative analytical review procedures in order to evaluate financial information and identify relationships between financial and non-financial data. Strategic analysis including statistical analysis and modelling will be introduced to facilitate knowledge and understanding

of risk assessment, including credit risk, fraud detection, and market interactions.

ACCY954 Advanced Investigative Techniques

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Refer to Faculty

Pre-requisites: ACCY950 and ACCY951

Subject Description: This subject introduces students to advanced techniques of risk assessment and management, detection of fraud and mismanagement, corporate governance and performance assessment and electronic auditing. The focus of the subject is sophisticated quantitative analysis, especially the use of computer assisted analytical procedures, of key operating and financial aspects of economic entities including forecasting, marketing, networking or strategic partnerships and computer systems. The importance to detection and assessment of fraud, risk, mismanagement and corporate governance and performance of a thorough understanding of an entity's components, structure and environment, including cause and effect interactions is emphasised.

ACCY957 Independent Accounting Expert Reports

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Refer to Faculty

Pre-requisites: ACCY950 and ACCY951

Subject Description: This subject draws on accounting professional standards and guidelines dealing with the identification and collection of forensic evidence, preparation of expert reports and appearing as an expert witness in a court of law. Common law and statutory requirements concerning the law of evidence are integral to this subject. Accordingly, a broad range of litigation eg fraud, divorce settlements, disputes between business partners, solvency and related matters, will be dealt with.

ACCY958 Research Project A

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Refer to Faculty

Pre-requisites: ACCY950 and ACCY951

Subject Description: This subject provides students with an opportunity to undertake independent research in specialised area within the broad topic area, fraud in a global economic environment. The specialised area must be selected in consultation with the subject co-ordinator and would fall within one of the following areas: international regulatory framework; identifying transnational corporate fraud; and forensic analysis of transnational corporations.

ACCY959 Research Project B

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Refer to Faculty

Pre-requisites: ACCY950 and ACCY951

Subject Description: This subject provides students with an opportunity to undertake independent research in specialised area within the broad topic area, globalisation and financial fraud - case studies. The specialised area must be selected in consultation with the subject co-ordinator and would fall within one of the following areas: transaction and banking fraud; currency (including forgery), financial fraud using the internet, off-shore banking and illegal money, underground banking, money Laundering, tax havens and fiscal termites, financial terrorists.

ACCY961 Professional Practice - Accounting

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Autumn 2S

Assessment: See Subject Outline

Subject Description: This subject is concerned with statements of Accounting Standards and statements of Accounting Practice and the impact of corporation law on the practice of accountancy..

ACCY962 Professional Practice-Auditing, Risk, Assurance & IS

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Refer to Faculty

Assessment: See Subject Outline

Subject Description: Auditing is integral to modern accounting practice. An examination of modern auditing, together with the legal environment which impacts upon it, is provided in this subject.

ACCY963 Professional Practice - Taxation

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Autumn 2S

Assessment: See Subject Outline

Subject Description: This subject includes a detailed examination of the relevant legislation relating to taxation, including income tax and the GST. The application of this legislation is discussed.

ACCY968 Insolvencies

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Spring 2S

Assessment: See Subject Outline

Subject Description: Accounting and legal aspects of corporate and non-corporate insolvencies including liquidations & receivership, and the use of insolvency procedures as a management strategy.

ACCY969 Financial Management For Health Services

Spring Wollongong Distance

Credit Points: 6

Contact Hours: Refer to Faculty

Assessment: See Subject Outline

Subject Description: This subject investigates the movement away from the management of costs towards the management of value for money. As such, it is concerned with the measuring and monitoring of efficiency. Accounting tools will be used to investigate quality of care, outcome, utility, products, utilisation and resource allocation.

ACCY973 History of Accounting Thought

Credit Points: 6

Not on offer in 2005

Assessment: See Subject Outline

Subject Description: An examination of the environmental factors and processes by which accounting thought, practices and institutions originated and developed in the ancient, medieval and modern eras. Ancient accounts. Special-purpose account-keeping in the Middle Ages. Philosophy, influence and constraints of the double-entry system. Development of basic concepts of continuity, accrual accounting and limited liability. Impact of the Industrial Revolution and changing corporate environment on accounting development. Legislation and institutional influences on accounting.

ACCY974 Accounting Regulation

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Spring 2S

Assessment: See Subject Outline

Subject Description: An in-depth study of the regulation of accounting practice and procedures, the accounting profession and of measurement and disclosure in external financial reporting. This could include an examination of the consequences of regulation, alternative institutional arrangement for setting standards, the impact of accounting theory on standard setting, and a historical review of accounting regulation.

ACCY983 Studies in Government Accounting

Credit Points: 6

Not on offer in 2005

Assessment: See Subject Outline

Subject Description: A detailed examination of selected areas in federal, state, regional or local government accounting.

ACCY985 Special Topic in Accounting-A

Spring Wollongong On Campus

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Spring 2S, Autumn 2S

Subject Description: A special topic to be selected from any area of financial accounting, management accounting, business finance, information systems or government accounting. The selection would be made by the Head of the Discipline, taking into account the expertise of academic staff, including visiting staff, and the interest of students.

ACCY986 Special Topic in Accounting-B

Spring	Wollongong	On Campus
Autumn	Wollongong	On Campus

Credit Points: 6**Contact Hours:** Spring 2S, Autumn 2S

Subject Description: A special topic to be selected from any area of financial accounting, management accounting, business finance, information systems or government accounting. The selection would be made by the Head of the Discipline, taking into account the expertise of academic staff, including visiting staff, and the interest of students.

ACCY993 Research Essay

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus

Credit Points: 12**Contact Hours:** Refer to Faculty

Subject Description: An individual program determined in consultation with the Head of Discipline.

ACCY994 Project

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus

Credit Points: 12**Contact Hours:** Refer to Faculty

Subject Description: An individual program determined in consultation with the Head of Discipline.

ACCY995 Research Project

Annual	Wollongong	On Campus
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Credit Points: 24**Contact Hours:** Refer to Faculty

Subject Description: An individual program determined in consultation with the Head of Discipline.

ACCY996 Thesis**Credit Points:** 48**Not on offer in 2005**

Subject Description: An individual program determined in consultation with the Head of Discipline.

BUSS906 Information in Organisations

Spring	Wollongong	On Campus
Autumn	Wollongong	On Campus

Credit Points: 6**Contact Hours:** Refer to Faculty**Pre-requisites:** Nil.**Co-requisites:** Nil.**Assessment:** Essays; and case study.

Subject Description: This subject establishes a basis for understanding the role of information systems in organisations and how such systems relate to organisational objectives, structures and procedures. Using systems theory plus other social theories including activity theory, the topics covered will include: the system concept in an organisation, information flows and decision processes, techniques and skills in representing system structures and integration of information systems into the organisational structure.

BUSS907 Electronic Commerce

Trimester 1	Hong Kong Baptist Uni	On Campus
Spring	Wollongong	On Campus
Autumn	Wollongong	On Campus
Summer 05/06	Wollongong	On Campus

Credit Points: 6

Contact Hours: Trimester 1, Spring 2L,1T, Autumn 2L,1T, Summer 2005/2006 2L,1T

Assessment: Projects, class participation, final examination.

Subject Description: This subject aims to provide an understanding of the scope of electronically supported commercial activities. The use of electronic commerce to achieve strategic advantage at the organizational, local and global arena will also be examined, with reviews on the broader social implications of electronic commerce.

BUSS909 Office Automation and Intranets**Credit Points:** 6**Not on offer in 2005****Pre-requisites:** Nil.

Assessment: Individual Essay; Individual Report and Web Pages; Group work with Individual Report.

Subject Description: This subject considers the integration of key elements in office automation and intranets, namely people, computers, and communication - with the ultimate aim of improving the productivity of office staff. It examines such issues as: the technology of text; hypertext data; image; audio-processing; human and ergonomic factors; office systems analysis; personnel and professional management aids; computer-based information services and the design of intranets.

BUSS910 Qualitative Analysis of Systems

Spring	Wollongong	On Campus
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Credit Points: 6**Contact Hours:** Refer to Faculty**Pre-requisites:** Nil.**Co-requisites:** Nil.**Assessment:** Continuous assessment; 3 assignments.

Subject Description: This subject examines newly emerging qualitative, contextual and interpretivist theories and methods used to describe information systems, the process of systems development, and change processes in organisations which emphasise relationships between technical and social change. The subject utilises interdisciplinary approaches drawn from critical theory, discourse analysis, ethnography and anthropology. The subject will also examine the implications of these approaches to the discipline and practice of systems analysis and development in organisations. Students will be involved in applying these theories and methods to system case studies and will be introduced to tools that support these approaches.

BUSS911 Intelligent Systems

Autumn	Wollongong	On Campus
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Credit Points: 6**Contact Hours:** Autumn 3hrs**Pre-requisites:** Nil.**Co-requisites:** Nil.**Assessment:** Assignments and final examination.

Subject Description: This subject considers the theory and practice of intelligent information systems development. It introduces the core principles of knowledge representation and reasoning, as well as techniques involved in knowledge acquisition, machine learning, planning and search. It then examines how these techniques are deployed in practical settings by considering applications such as expert systems, constraint programming, multi-agent systems, data mining and web information retrieval.

BUSS924 Systems Modelling and Simulation

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Refer to Faculty

Pre-requisites: Nil

Assessment: Weekly assignment; term project; and final examination.

Subject Description: This subject aims to introduce the concepts of systems modelling and simulation, and its role in analysing the operation characteristics of a system for supporting management in decision making. Both discrete and continuous systems modelling and simulation will be covered. Statistical aspects of simulation will be emphasised.

BUSS926 Decision Support Systems

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Refer to Faculty

Pre-requisites: Nil.

Co-requisites: Nil.

Assessment: Assignment, research paper and final examination.

Subject Description: A central concern for the field of Information Systems is the design and implementation of computer systems to support managerial decisions and organisational processes. This requires a good understanding of the process of decision making and the ability to model decisions effectively besides gaining familiarity with a range of software tools for building such systems. This subject will provide a comprehensive review of model-based and data-driven approaches to building systems to provide decision support in organisations. It will have an interdisciplinary thrust drawing on concepts and theories from Information Systems, Computer Science, Management Science among others.

BUSS927 Human Computer Interaction

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Autumn 2L,1CL

Assessment: Assignments and final examination.

Subject Description: The aims of this subject are to introduce students to the multi-disciplinary field of Human Computer Interaction (HCI) in order for students to gain an understanding of how humans interact with changing technology, and to develop the knowledge and skills required to design and evaluate computer information systems based on their suitability and effectiveness for supporting diverse user's activities and goals.

BUSS929 Information Systems Research Methods

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Autumn, Spring 3L

Pre-requisites: Nil

Co-requisites: Nil

Assessment: The subject will have the following assessment components: reviews of research papers; literature review paper for a research topic of your choice; class participation and class presentation on the research topic of your choice.

Subject Description: This subject aims to provide a substantive and methodological introduction to research in the field of Information Systems. While the primary focus will be on the different research methods for doing research in this field, some content-related issues are bound to come up during the course of the discussions in the class. It is expected that, on completion students will be able to critically read and relate to published research and to develop sufficient research skills to be in a position to undertake thesis and other independent research in information systems. The students should also develop an appreciation for the criteria as to what constitutes 'good' research using each of the methods discussed and the appropriateness of each for specific research questions.

BUSS945 Information Systems Project

Spring2005/

Autumn2006 Wollongong On Campus

Annual Wollongong On Campus

Autumn Wollongong On Campus

Credit Points: 12

Contact Hours: Refer to Faculty

Pre-requisites: Nil

Assessment: Project report, extended literature review, system design and/or development, Case Study OR Develop and use an instrument OR experiment.

Subject Description: The aim of this subject is to provide students with the opportunity to study a topic of research interest within a staff research group in the Information Systems Discipline. The project will be completed under staff supervision and culminates in the production of a substantial written report plus other products such as computer software as appropriate to the project. The subject aims to provide students with the opportunity under staff guidance to investigate/research an area or topic of interest in-depth in the IS Discipline; gain experience in the use of one or more methods, techniques and/or tools of one or more applicable research paradigms; gain experience in organising and using their time and efforts within specified constraints to produce a major piece of work in the form of a final report.

BUSS946 Information Systems Project Part 1

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Refer to Faculty

Pre-requisites: Nil

Assessment: Work completed in this subject together with that completed in BUSS947 will be assessed as described for BUSS945. (final detailed report plus any other relevant materials related to the project topic).

Subject Description: This subject is specifically for students commencing in Spring Session the information systems project specified in BUSS945. This subject together with BUSS947 Information Systems Project Part 2 (Autumn Session) is equivalent to BUSS945.

BUSS947 Information Systems Project Part 2

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Refer to Faculty

Pre-requisites: Nil.

Assessment: Work completed in BUSS947 together with that completed in BUSS946 will be assessed as specified in the description of BUSS945. (Final detailed report plus any other relevant materials related to the project topic).

Subject Description: This subject is specifically for those who commenced their project in the previous Spring Session in BUSS946.

BUSS950 Systems Development Methodologies

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Autumn 2L,1T

Assessment: Seminar Presentation, Reports and final examination.

Subject Description: This subject provides an introduction to and overview of systems development methodologies for both historical and philosophical perspectives; an introduction to frameworks and issues which may be used to assess and compare different system development methodologies; an introduction to and comparison of the tools and techniques of a selection of systems development methodologies and the phases and stages of the systems development life cycle to which they are applicable and the opportunity to gain some in-depth knowledge of selected methodologies, techniques, tools, frameworks or issues via assignments.

BUSS951 Critical Issues in Information Systems

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Spring 2L,1T

Assessment: Assignments and final examination.

Subject Description: This subject explores the critical issues of current concern to information systems researchers and practitioners in organisations. It will provide both a broad comparative view of state of the art organisational information systems and a detailed study of the development and application of selected systems currently being researched within the Information Systems Discipline.

BUSS952 Strategic Information Systems Management

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Autumn 2L, 1T

Assessment: Tutorial Questions, Group Assignment, case study and final examination.

Subject Description: This subject aims to provide students with: an overview and analysis of the most important issues

facing IS managers in organisations today; descriptions of useful and acceptable IS structures and planning processes, and how to objectively and ethically apply them in varying organisational contexts; an insight into typical mechanisms used for managing IS staff within the organisation.

BUSS953 Management of Information Systems Development

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Spring 2L,1T

Assessment: Class Tutorial Work, assignments and final examination.

Subject Description: This subject provides an introduction to, and overview of, the knowledge and skills required to successfully manage computer-based systems development projects within an organisational setting. Topics and issues considered include: Information Systems project management and its organisational context; inter-organisational arrangements for e-business including B2B and B2C frameworks, project management tools and techniques; feasibility study methods; resource estimation techniques; behaviour and management of Information Systems project groups; systems development environments for professionals and end-users; quality assurance; project and system evaluation.

BUSS981 Advanced Information Systems-Topic A

Spring Wollongong On Campus

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Refer to Faculty

Pre-requisites: Nil.

Co-requisites: Nil.

Assessment: Reports; assignments.

Subject Description: This subject is available to those enrolled in the Honours Master of Information Systems program by coursework and BUSS986 Research Report. The subject provides the opportunity for students to undertake individual supervised study related to their individual program and the topic of their BUSS986 Research Report.

BUSS982 Advanced Information Systems-Topic B

Spring Wollongong On Campus

Autumn Wollongong On Campus

Annual Wollongong On Campus

Credit Points: 6

Contact Hours: Refer to Faculty

Pre-requisites: Nil.

Co-requisites: Nil.

Assessment: Reports; assignments.

Subject Description: This subject is available to those enrolled in the Honours Master of Information Systems program by coursework and BUSS986 Research Report. The subject provides the opportunity for students to undertake individual supervised study related to their individual program and the topic of their BUSS986 Research Report.

BUSS983 Advanced Information Systems-Topic C

Annual Wollongong On Campus

Credit Points: 12**Contact Hours:** Refer to Faculty**Pre-requisites:** Nil.**Co-requisites:** Nil.**Assessment:** Reports; assignments.

Subject Description: This subject is available to those enrolled in the Honours Master of Information Systems program by coursework and BUSS986 Research Project. The subject provides the opportunity for students to undertake individual supervised study related to their individual program and the topic of their BUSS986 Research Report.

BUSS984 Advanced Information Systems-Topic D

Spring Wollongong On Campus

Autumn Wollongong On Campus

Annual Wollongong On Campus

Credit Points: 12**Contact Hours:** Refer to Faculty**Pre-requisites:** Nil.**Co-requisites:** Nil.**Assessment:** Reports; assignments.

Subject Description: This subject is available to those enrolled in the Honours Master of Information Systems program by coursework and BUSS986 Research Report. The subject provides the opportunity for students to undertake individual supervised study related to their individual program and the topic of their BUSS986 Research Report.

BUSS986 Research Report

Spring Wollongong On Campus

Autumn Wollongong On Campus

Annual Wollongong On Campus

Credit Points: 24**Contact Hours:** Refer to Faculty**Pre-requisites:** Nil.**Co-requisites:** Nil.**Assessment:** Final written report and progress reports.

Subject Description: This subject must be completed by students undertaking the Honours Master of Information Systems by coursework plus project. The project involves completing a significant research report on a specific information systems topic.

BUSS987 Master Thesis**Credit Points:** 48**Not on offer in 2005****Pre-requisites:** Nil.**Co-requisites:** Nil.

Assessment: Research thesis to be examined in accordance with University rules and regulations.

Subject Description: This subject is specifically for students undertaking the Honours Master of Information Systems program by research. The subject requires individual, supervised research on an advanced information systems topic and culminates in the submission of a thesis in the topic.

BUSS991 Research Report - Part 1

Spring Wollongong On Campus

Credit Points: 12**Contact Hours:** Refer to Faculty**Pre-requisites:** Nil.**Co-requisites:** Nil.

Assessment: Work completed in this subject together with that completed in BUSS992 will be assessed as described for BUSS986.

Subject Description: This subject is specifically for students in the Honours Master of Information Systems by coursework plus project who are commencing work on their project in Spring Session. This subject together with BUSS992 taken in the following Autumn Session is equivalent to BUSS986.

BUSS992 Research Report - Part 2

Autumn Wollongong On Campus

Credit Points: 12**Contact Hours:** Refer to Faculty**Pre-requisites:** Nil.**Co-requisites:** Nil.

Assessment: Work completed in BUSS992 together with that completed in BUSS991 will be assessed as described for BUSS986.

Subject Description: This subject is specifically for Honours Master of Information Systems students completing their program by coursework plus project who have commenced their project in BUSS991 in the previous Spring Session.

BUSS999 Doctoral Thesis**Credit Points:** 48**Not on offer in 2005****Pre-requisites:** Nil.**Co-requisites:** Nil.

Assessment: Research thesis to be examined in accordance with University rules and regulations.

Subject Description: This subject is specifically for students undertaking the Doctor of Philosophy program in Information Systems. The subject requires individual, supervised research on an advanced information systems topic and culminates in the submission of a thesis which demonstrates an original contribution to the field of study.

COMM980 Business Research Methods

Autumn Wollongong On Campus

Credit Points: 6**Contact Hours:** Refer to Faculty

Subject Description: This subject is designed to provide research students in the Faculty of Commerce with a background to the methodology and practice of social science research. A major goal of the subject is to provide a 'kick-start' for students who are beginning, or are planning to carry out their first major research study on a Commerce-related topic (this would cover, for example, the fields of management, marketing, employment relations, business systems, organisational studies and accounting). The subject will provide an introduction to philosophical underpinning of social science research, the practical issues associated with the conduct of research (including project management and research ethics), as well as an overview of the main

qualitative and quantitative methods used to collect and analyse social research data.

ECON901 Monetary Economics

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Autumn 1L, 1T

Exclusions: Not to count with ECON301

Subject Description: This subject focuses on the monetary aspects of the macro-economy. It comprises two parts. The first focuses on a comparison of the monetary transmission mechanism and policy implications arising from the Classical, Keynesian, Monetarist and New Classical theories. The second section analyses the money supply and its control, the conduct of monetary policy, money in the open economy, inflation and the Australian financial system.

ECON902 Advanced International Monetary Economics

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Spring 2L, 1T

Exclusions: Not to count with ECON307

Subject Description: This subject is a study of monetary aspects of international economics. It comprises two parts. In Part A we examine theoretical approaches to the balance of payments and exchange-rate determination. In Part B we analyse selected issues in international monetary economics.

ECON903 Public Finance

Credit Points: 6

Not on offer in 2005

Subject Description: This subject further develops topics encountered in the undergraduate public finance course. Particular emphasis will be placed on issues surrounding inter-governmental fiscal relations in a federal system. Questions of fiscal transfer mechanism, divisions of powers and responsibilities and the equalisation measures which might be used will be considered.

ECON904 Trade, Growth and Development

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Autumn 2L, 1T

Subject Description: The following topics will be covered: The WTO as an international organisation; capital-skill complementarity between new investment and technical progress; concerns about the role of international trade on growth and development; the role of multinational corporations in trade and technology transfers; human development, economic democracy and shared growth; international economic institutions (IBRD,IMF,WTO) and the national economies. Examples will be cited from developing and developed countries.

ECON906 History of Economic Thought

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Refer to Faculty

Exclusions: Not to count with ECON316

Subject Description: This subject is designed to introduce students to the main developments in economic theory from the 17th to 20th centuries. Internal changes in theories, relationships between successive theories and external influences on this development will be examined. Students will be expected to read widely in both primary and secondary sources.

ECON907 Cost-Benefit Analysis

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Spring 3L

Exclusions: Not to count with ECON310

Subject Description: This subject involves the study of the theoretical foundations and practical techniques of social cost benefit analysis (CBA). Theoretical considerations include the study of Pareto optimality and the Pareto criterion, the concept of a social welfare function, the Kaldor-Hick compensation principle, theories of market failure, shadow pricing, consumer and producer surplus, and social time preference. Methods of valuing benefits and costs will be studied including the use of market values and techniques that might be used when market prices are not appropriate or not available (such as contingent valuation and hedonic pricing). Alternative CBA decision criteria will be evaluated and compared. Methods of sensitivity analysis will be studied and evaluated. Cost benefit case studies will be reviewed. Spreadsheet skills will be developed and applied to complex situations where cost benefit methods are appropriate. The practical limitations of cost benefit analysis will be studied.

ECON908 Advanced Topics in the Economics of Development

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Autumn 2L, 1T

Exclusions: Not to count with ECON303

Subject Description: The subject provides an in-depth analysis of economic development in both theory and experience. Topics include economic growth versus economic development; poverty and inequality; population growth; unemployment and rural-urban migration; technological change; peasant agriculture and agricultural productivity; human capital and development; the role of capital; credit and institutions; as well as the international dimensions of development and development policy.

ECON909 Econometric Theory

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Refer to Faculty

Subject Description: This subject deals with advanced topics in the theory and practice of econometrics and covers contemporary issues of model specification, estimation, testing, and forecasting. The subject will be based on journal articles in which the current econometric issues are discussed.

ECON910 Economics for Accounting Professionals

Autumn Wollongong On Campus

Credit Points: 6**Contact Hours:** Autumn 2L, 1T**Assessment:** Assignments and Final Examination.

Subject Description: This subject provides the student with knowledge of the essential principles of economics and the aspects of the economic system which are particularly relevant to professional accountants. The subject will examine key topics in microeconomics and international economics that are used in business and managerial decision-making, focusing on how they influence accounting outcomes and project evaluations. These topics will include price theory, cost analysis, profit determination and exchange rate determination. The subject will also introduce students to the economic perspective underlying business issues such as wage rate determination, environmental policy, income distribution and international trade.

ECON911 Advanced International Economics

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** Spring 2L, 1T**Exclusions:** Not to count with ECON216

Subject Description: This subject is designed to provide an introduction to international trade theory and international trade policy. It will examine the theory, policies, practices and institutions of relevance to a country's trade with other nations. The following broad issues will be considered including why nations trade with each other; the gains and losses from free trade to the nations involved; the determination of the pattern of international trade and production; the effects of various commercial policies on the nations involved and on the welfare of various groups within those nations; how the foreign exchange market works and in what ways it facilitates or impedes international trade; the possible effects of exchange-rate policies on a country's production, employment and price level; how a country's trade performance is linked to its external debt and economic growth; and how can trade affect the local and global environment?

ECON912 Labour Economics

Autumn Wollongong On Campus

Credit Points: 6**Contact Hours:** Autumn 2L, 1T**Exclusions:** Not to count with ECON308

Subject Description: This subject studies labour supply, labour demand and wage rate determination in a market-orientated economy. The subject emphasises the development and application of economic theory rather than an institutional approach to analyse labour markets. Several areas of application are drawn from the following and analysed in some detail. The effects of welfare programs on labour-market participation and hours of work; the effects of imposing a minimum wage in both competitive and non-competitive labour markets; the theory of human capital and its use in explaining observed earnings differentials; an explanation for occupational wage differentials, discrimination in the labour market; the rationale for labour unions; the economic impact of labour unions; and the causes of unemployment. Examples relate mostly to the Australian and

US labour markets although some comparisons are drawn with labour markets in other countries.

ECON913 Industrial Organisation

Autumn Wollongong On Campus

Credit Points: 6**Contact Hours:** Autumn L2 T1**Exclusions:** Not to count with ECON312

Subject Description: This subject provides the theoretical basis for the analysis of firm structure, conduct and performance. It focuses on issues related to the implementation of competitive policy from both national and international perspective.

ECON915 Electronic Commerce and the Economics of Information

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** Spring 2L, 1T**Exclusions:** Not to count with ECON319

Subject Description: This subject analyses the impact of electronic commerce on the markets for consumer goods and services and factors of production. Reasons for the dramatic increase in the use of electronic commerce and its effects on consumers, business firms and the wider community will be explored. Special attention will be given to the implications for small and medium-sized firms and the impact of electronic commerce on the globalisation of markets. The subject develops the theory of the economics of information, technology and transaction costs and investigates the role and value of information in decision making.

ECON916 Economics of Education, Health and Welfare**Credit Points:** 6**Not on offer in 2005****Exclusions:** Not to count with ECON315

Subject Description: Several areas of microeconomic theory will be selected for advanced treatment. Within each topic contemporary applications will be explored after the development of a theoretical base.

ECON918 Economics of Health Care

Autumn Wollongong On Campus

Autumn Wollongong Distance

Credit Points: 6**Contact Hours:** Autumn 2L, 1T, Autumn**Exclusions:** Not to count with ECON318 or ECON317

Subject Description: The subject surveys economic aspects of the Australian health care system. Topics covered will include the supply and demand for health services, health care delivery systems, health insurance, social statistics and medical decision making. Government policies influencing all aspects of health care will be analysed and evaluated.

ECON921 Econometric Models

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** Spring L2 T1

Pre-requisites: ECON221 or equivalent subjects approved by Head of Discipline

Exclusions: Not to count with ECON327

Assessment: Tutorials/computing laboratory exercises, essays and tests.

Subject Description: This subject develops the foundations of econometric models. Both time series analysis and simultaneous equation models will be studied. The subject will emphasise suitable model building with economic content, obtaining estimates with desirable properties, testing procedures, model evaluation and selection, and the application of econometric models. Examples from current Australian econometric models will be critically examined.

ECON924 International Economic Relations

Credit Points: 6

Not on offer in 2005

Exclusions: Not to count with INTR920 and ECON982

Subject Description: The subject will examine policy issues in the international economy, especially as they affect the Asia-Pacific region. The role of international economic organisations such as the IMF, World Bank, and GATT will be emphasised as well as issues such as free trade, protectionism, exchange rate determination and international capital flows. Options available to individual countries for international economic policy will be explored.

ECON927 Innovation and Technology in the New Economy

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Autumn 2L, 1T, Spring 2L, 1T

Pre-requisites: N/A

Co-requisites: N/A

Exclusions: Not to count with ECON227 or ECON229

Assessment: Essays; seminar and exam

Subject Description: This subject provides economic conceptual frameworks in which to think systematically about the economy, technology, innovation and related policy issues. The course does not include theory for the theory's sake, but presents and uses theoretical tools as a means to the end of gaining better understanding of the role of innovation-related policy issues in the context of a creative economy. Although the concepts and tools developed are relevant to all countries, special attention will be given to Australian and other OECD economies.

ECON933 Conflict and Cooperation

Credit Points: 6

Not on offer in 2005

Pre-requisites: ECON111 and ECON122

Exclusions: Not to count with ECON333

Subject Description: This subject provides study of advanced topics in game theory. The subject builds on traditional analytical techniques in economics based on assumptions of certainty and competitive markets. Using game theory, the analysis is extended to settings that traditional economic analysis is unable to cope with. These typically involve incorporating risk and uncertainty, asymmetric and incomplete information and strategic situations where the assumptions of

competitive markets do not apply. The emphasis is on theoretical developments and the application of the central tools of game theory to real world problems of business and economics involving strategic interactions between parties.

ECON935 Advanced Managerial Economics and Operations Research

Credit Points: 6

Not on offer in 2005

Exclusions: Not to count with ECON332

Subject Description: This subject provides study of advanced quantitative techniques applicable to economic and managerial decision-making. This subject covers a wide range of quantitative analyses such as forecasting techniques, Bayesian analysis, Markov process models, PERT, CPM and specialised network algorithms, risk preference analysis, transportation and assignment models and quadratic and nonlinear programming.

ECON936 Graduate Macroeconomics

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Spring 2L, 1T

Exclusions: Not to count with ECON205

Subject Description: This subject analyses the major factors which determine macroeconomic behaviour and associated policy prescriptions. The effects of consumption and investment, international factors, monetary and fiscal policies on aggregate demand are examined. The determination of wages and prices, inflation and unemployment are also considered in terms of aggregate supply.

ECON937 Graduate Microeconomics

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Autumn 2L, 1T

Subject Description: This subject provides study of the demand for, and the supply of, goods and services, and price determination in a market-orientated economy. This subject develops, from its axiomatic foundations, the economic theory of consumer choice and market demand, and the economic theory of the firm and market supply. The subject provides students with a strong foundation in microeconomic theory in order to facilitate further post-graduate study in both theoretical and applied fields of economics.

ECON938 Environmental Economics

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Spring 2L

Exclusions: Not to count with ECON309

Assessment: Essay, Seminar Paper, Final Examination

Subject Description: This subject will provide a comprehensive analysis of environmental issues utilising the theory of economic externalities and the theory of ecologically sustainable development. Methods used to correct environmental problems and to measure externalities will be analysed. The subject will also evaluate environmental policies in Australia, developing countries and in the international economy.

ECON939 Quantitative Economic Analysis

Autumn Wollongong On Campus

Credit Points: 6**Contact Hours:** Autumn L2 T1**Exclusions:** Not to count with ECON221

Subject Description: This subject develops the fundamental concepts of econometrics used in applied economic work in the academic, business and government sectors. The subject covers the standard and non-standard econometric models based on time series, cross-section and qualitative data. Emphasis will be on applications of the econometric methodologies to empirical research.

ECON940 Statistics for Decision Making

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** Spring 2L, 1T**Assessment:** Assignments and Final Examination

Subject Description: This subject develops principles of descriptive and inferential statistics, and their applications in the business environment. A foundation of descriptive statistics and probability is first developed, followed by discussion of the concepts and principles of statistical inference. Several topics in statistical inference are then examined including confidence intervals, hypothesis testing, statistical quality control, regression analysis and forecasting. Case studies are used to demonstrate the application of statistical methodology to aid business decision making.

ECON941 Advanced Topics in Economics - A

Spring Wollongong On Campus

Autumn Wollongong On Campus

Credit Points: 6**Contact Hours:** Spring Refer to Department, Autumn 2L, 1T

Subject Description: Topics for this subject may be drawn from any area of economics which the Head of the Discipline considers to be suitable preparation for a higher degree and appropriate to the student's special interests.

ECON942 Advanced Topics in Economics-B

Spring Wollongong On Campus

Autumn Wollongong On Campus

Credit Points: 6**Contact Hours:** Spring Refer to Department, Autumn Refer to Department

Subject Description: Topics for this subject may be drawn from any area of economics which the Head of the Discipline considers to be suitable preparation for a higher degree and appropriate to the student's special interests.

ECON943 Advanced Topics in Economics - C

Autumn Wollongong On Campus

Credit Points: 6**Contact Hours:** Autumn Refer to Department

Subject Description: Topics for this subject may be drawn from any area of economics which the Head of the Discipline considers to be suitable preparation for a higher degree and appropriate to the student's special interests.

ECON982 International Economic Relations

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** Spring 2L, 1T**Exclusions:** Not to count with ECON924 or INTR920

Subject Description: The subject will examine policy issues in the international economy, especially as they affect the Asia-Pacific region. The role of international economic organisations such as the IMF, World Bank, and GATT will be emphasised as well as issues such as free trade, protectionism, exchange rate determination and international capital flows. Options available to individual countries for international economic policy will be explored.

ECON983 Trade and Industry in East Asia

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** Spring 2L, 1T**Exclusions:** Not to count with ECON251

Subject Description: This subject studies the neo-classical, structuralist and culturalists views on industrialisation in Asia using country specific examples. It examines trade and industry policy, investment flows, economic integration and the international monetary system. The causes of Asian growth and meltdown are analysed. The strategies to overcome the main economic problems and the recent developments in the Asia-Pacific region are emphasised.

ECON984 Financial Economics

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** Spring 2L, 1T**Exclusions:** Not to count with ECON331

Subject Description: This subject provides advanced study of the theory of efficient acquisition, financing and composition of assets and production activities with applications in the fields of economics of the firm, agricultural economics and international economics. Optimal control methods and phase-plane diagrams are used for analysing efficient trajectories of capital investment and borrowing. Investors' portfolio choices and producers' activity sets will be analysed within a mean-variance expected utility maximisation framework.

ECON991 Project

Spring Wollongong On Campus

Autumn Wollongong On Campus

Credit Points: 12**Contact Hours:** Refer to Faculty**ECON992 Research Report**

Annual Wollongong On Campus

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 24**Contact Hours:** Refer to Faculty

ECON993 Thesis

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus
Annual	Wollongong	On Campus

Credit Points: 48**Contact Hours:** Refer to Faculty**ECON996 Advanced Macroeconomic Theory**

Autumn	Wollongong	On Campus
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Credit Points: 6**Contact Hours:** Autumn 3L

Subject Description: The subject attempts a critical review of advanced contemporary macroeconomic theories and their policy prescriptions. In doing so the subject stresses the need to consider four important concepts, namely the international orientation of macroeconomics, the role of expectations and their formation, the importance of dynamics and speeds of adjustments and finally, the difficulty of formulating and implementing consistent, optimal macroeconomic policy in a changing world.

ECON997 Advanced Microeconomic Theory

Autumn	Wollongong	On Campus
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Credit Points: 6**Contact Hours:** Autumn 3L

Subject Description: The subject provides a bridge between microeconomics at the undergraduate level and microeconomics in a good-quality PhD program. The subject extends and deepens the student's understanding of the theory of consumer behaviour and the theory of the firm and covers some new topics such as economic behaviour under conditions of uncertainty and the economics of information.

FIN 920 Advanced Risk and Insurance

Spring	Wollongong	On Campus
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Credit Points: 6**Contact Hours:** Refer to Faculty**Assessment:** See Subject Program

Subject Description: Deals with the concepts and technical description of risk, risk attitudes/preferences and insurance. Conceptual models and tools discussed include those used in protecting against portfolio risk, other financial risks (e.g. exchange rate risk) and more general corporate risks (e.g. regulatory risk). Specific risk management tools are taught by way of hypothetical applications. These include share portfolio insurance using derivatives, and hedging against currency exchange rate and interest rate movements both in the spot and derivative markets.

FIN 921 Managerial Finance

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus

Credit Points: 6**Contact Hours:** Autumn 2S, Spring 2S**Exclusions:** Not to count with ACCY921 and TBS 907**Assessment:** See Subject Outline

Subject Description: An examination of the sources and uses of corporate finance, and the identification of relevant costs for decision making. Specific topics may include

financial decision and corporate strategy, valuation, receivables, capital investment, risk and uncertainty, required rates of return, dividend policy, leasing, mergers and acquisitions.

FIN 922 Investment Analysis

Autumn	Wollongong	On Campus
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Credit Points: 6**Contact Hours:** Autumn 3S**Exclusions:** Not to count with ACCY922**Assessment:** See Subject Outline

Subject Description: An in-depth study of investments and investment decision analysis. The theoretical bases of asset pricing and net present value. The application of investment selection criteria under diverse conditions and in different market settings. The incorporation of risk into investment decision analysis and a study of the application of capital asset pricing models in investment evaluation.

FIN 923 Investment Management

Spring	Wollongong	On Campus
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Credit Points: 6**Contact Hours:** Spring 2S**Exclusions:** Not to count with ACCY923**Assessment:** See Subject Outline

Subject Description: The subject examines some advanced topics in the modern theory of optimal investment decision-making, portfolio theory, capital and derivative markets. The subject will explore areas including; market efficiency models in valuing portfolios and securities, bond analysis, portfolio management and performance evaluation. The subject will provide a theoretical framework within which all derivative securities can be valued and hedged and also examine the way they are traded.

FIN 924 Corporate Financial Information Analysis

Autumn	Wollongong	On Campus
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Credit Points: 6**Contact Hours:** Autumn 2S**Exclusions:** Not to count with ACCY924**Assessment:** See Subject Outline

Subject Description: A survey of methods for the appraisal and prediction of corporate financial performance from such publicly available information as accounting numbers, industry and economic statistics, and stock market data. Equal emphasis is placed upon the development of theoretical constructs, and appraisal of the results of empirical research, especially Australian studies.

FIN 925 Banking Theory and Practice

Autumn	Wollongong	On Campus
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Credit Points: 6**Contact Hours:** Autumn 2S**Exclusions:** Not to count with ACCY925**Assessment:** See Subject Outline

Subject Description: This subject focuses on accounting aspects of the practices and operations of banks and other financial institutions. It entails comprehensive discussions on issues that are commonly involved within the banking

Subject Descriptions

environment such as the regulatory structure, the cheque clearing system, risk management, lending issues, capital adequacy analysis and the latest information technology within the banking world.

FIN 926 Studies in Business Finance

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Autumn 3S

Exclusions: Not to count with ACCY926

Assessment: See Subject Outline

Subject Description: Contemporary business finance theory, including option pricing theory, arbitrage pricing model, bond swapping and bond immunisation.

FIN 927 Small Business Finance

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Spring 2S

Exclusions: Not to count with ACCY927

Assessment: See Subject Outline

Subject Description: Two major problems account for the majority of small business failures. These are managerial problems and financial limitations. Both are intertwined. The material in this subject covers the sources, uses and management of funds from pre-purchase to public listing. For example, common errors in the financial management of small firms include a lack of adequate control systems for cash and inventory management, accounts receivable and payable, credit management etc. Financial decisions involve complex issues that have both theoretical and applied components that will be discussed in some detail.

FIN 928 Multinational Financial Management

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Spring 2S

Exclusions: Not to count with ACCY928

Assessment: See Subject Outline

Subject Description: The role of multinationals in international investment; aspects of the international monetary system; Euromarkets; foreign exchange markets; internal and external exposure management techniques; currency futures and options; swaps; financing MNC investment; MNC investment decision making; political risk analysis; international taxation.

FIN 929 Risk, Development and Venture Capital

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Spring 2S

Exclusions: Not to count with ACCY928

Assessment: See Subject Outline

Subject Description: This is predominantly a research subject. The material covered includes the foundations and development of the risk capital industry, management structures, investment decision making processes, deal structures and post investment involvement in entrepreneurial companies by venture capitalists. The risk capital industry has

been promoted, by numerous governments, as a panacea for economic woes. This tendency, its rationale and the approaches taken for risk capital development internationally will also be discussed.

FIN 955 International Banking

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Spring 2S

Exclusions: Not to count with ACCY955

Assessment: See Subject Outline

Subject Description: The global impact of banking is the focus of this subject. The subject entails comprehensive discussions on issues that are commonly involved within the international banking environment such as the development of the international monetary system, deregulation of banks, methods of payment in international trade, the foreign markets, international lending and developments of new technology and its impact on the international banking sector.

FIN 956 Banking, Lending and Securities

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Spring 2S

Exclusions: Not to count with ACCY956

Assessment: See Subject Outline

Subject Description: The criteria involved in the bank's lending process and the securities associated with such a process are the focus of this subject. The subject entails comprehensive discussions on issues of lending within the banking environment such as regulations of security offerings, principles of good lending, documents involved in lending, lending and the consumer credit code, new developments in lending and securities and its impact on the banking sector.

FIN 987 Special Topic in Finance

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Autumn 2S, Spring 2S

Exclusions: Not to count with ACCY987

Assessment: See Subject Outline

Subject Description: This course provides an opportunity to study a topic of research interest within the theory and application of finance as it relates to (i) corporate finance and (ii) investments. The research will be completed under staff supervision and culminates in the production of a written report.

FIN 993 Research Essay

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 12

Contact Hours: Refer to Faculty

Subject Description: An individual program determined in consultation with the Head of Discipline.

FIN 994 Project

Spring	Wollongong	On Campus
Autumn	Wollongong	On Campus

Credit Points: 12**Contact Hours:** Refer to Faculty**Subject Description:** An individual program determined in consultation with the Head of Discipline.**FIN 995 Research Project**

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus

Credit Points: 24**Contact Hours:** Refer to Faculty**Subject Description:** An individual program determined in consultation with the Head of Discipline.**FIN 996 Thesis****Credit Points:** 48**Not on offer in 2005****Subject Description:** An individual program determined in consultation with the Head of Discipline.**INTR920 Advanced International Economic Relations B**

Spring	Wollongong	On Campus
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Credit Points: 8**Contact Hours:** Spring 2L, 1T**Exclusions:** Not to count with ECON982 or ECON924**Subject Description:** The subject examines policy issues in the international economy especially as they affect the Asian-Pacific region. The roles of international economic organizations such as the IMF, World Bank and GATT are emphasised as well as issues such as free trade, protectionism, exchange rate determination and international capital flows. Options available to individual countries for international economic policy are explored.**INTR921 Advanced International Economics****Credit Points:** 8**Not on offer in 2005****Subject Description:** This subject will develop and analyse the determinants and consequences of economic; growth and trade; factor transfers (including foreign investment); tariffs, import-substituting industrialisation. The foreign exchange market and internal and external balance (the two-gap model) will also be studied.**INTR922 Advanced Topics in Economics****Credit Points:** 8**Not on offer in 2005****Subject Description:** Topics for this subject may be drawn from any area of economics which the Head of the Discipline considers to be suitable preparation for a higher degree and appropriate to the student's special interests.**MARK901 Marketing on the Internet**

Spring	Wollongong	On Campus
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Credit Points: 6**Contact Hours:** Spring 3 hrs**Subject Description:** The issues facing buyers and sellers online will be applied to marketing subject areas like relationships, community and customer information systems as well as the basic 4P's of marketing. The focus will be at a people and process level to get an understanding of what happens in organisations. Internet applications are reviewed from the perspective of value that electronic networks and data processing can bring to areas of marketing practice. The underlying theme across all areas is how value is added to create overall customer satisfaction in the different areas of marketing practice.**MARK917 Business to Business Marketing**

Autumn	Wollongong	On Campus
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Credit Points: 6**Contact Hours:** Refer to Faculty**Subject Description:** Business to Business Marketing covers issues particular to the situation where one business markets a product or service to another business (rather than to an individual consumer). This subject is also referred to at times as Industrial Marketing.**MARK920 Social Marketing**

Spring	Wollongong	On Campus
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Credit Points: 6**Contact Hours:** Spring 3L/T**Subject Description:** Unlike commercial marketing which seeks to simply change purchasing patterns, social marketing seeks to change strongly ingrained behaviour or firmly held beliefs in a manner that benefits individuals and society at large. Examples of social marketing include campaigns to reduce or prevent smoking, alcohol consumption, drug use, domestic violence and unsafe driving. This subject examines how to design a step-by-step program that will move the target audience from indifference to action and ultimately maintenance. This is achieved by applying marketing techniques and concepts to the solution of various social problems. This subject will use a case-study approach to teaching the key concepts and skills of social marketing, drawing on current and historic Australian and international campaigns.**MARK922 Marketing Management**

Autumn	Wollongong	On Campus
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Credit Points: 6**Contact Hours:** Autumn 3L**Exclusions:** WBS904**Subject Description:** This is the introductory postgraduate Marketing subject. It examines the contemporary view of marketing and focuses on the following areas: identification of market opportunities, segmentation and target marketing, marketing mix decisions, service marketing and international marketing.**MARK935 Marketing Strategy**

Spring	Wollongong	On Campus
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Credit Points: 6**Contact Hours:** Spring 3L

Subject Description: With the use of case studies, this subject will examine the development and implementation of marketing plans and strategies at the organisational level. Key issues may include: marketing's strategic role in the organisation, marketing strategy and competitive advantage, including marketing mix strategies, marketing strategy formulation, implementation and control.

MARK936 Consumer Behaviour

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Autumn 3L/T

Subject Description: The subject will explore the motives of consumers during the purchase of products and services. It will investigate sociological and psychological concepts as they specifically apply to the behaviour of consumers in order to learn how to make more effective marketing decisions. In addition to a required text that will be used to understand the theory, readings and case studies will be assigned for practical application of the concepts.

MARK937 Relationship Marketing

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Spring 3L/T

Subject Description: Marketing has been defined by some as the art of getting and keeping customers. However, most of the emphasis has been placed on attracting customers. Relationship marketing stresses the importance of keeping customers. This subject will provide both a theoretical and practical perspective to relationship marketing.

MARK938 Managing Services Marketing

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Spring 3L/T

Subject Description: This course provides an in-depth analysis of the problems facing services marketing managers. Through lectures, class discussions, readings and case analysis, plus observation of firms in actual service situations, students will develop insights concerning the unique characteristics of marketing in the services sector. Major topics include: problems and strategies in services marketing; understanding the service experience, dimensions of service quality, services marketing mix, growth strategies for service firms and marketing implementation issues.

MARK940 Marketing Communications

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Autumn 3L

Subject Description: This subject will provide both a theoretical and a practical perspective on Marketing Communications and Promotion Strategy. Students will learn to use communication tools such as advertising, sales promotion, point-of-purchase materials, sponsorship programs and publicity, to optimise intervention on organisational issues.

MARK954 Special Topic in Marketing A

Spring Wollongong On Campus

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Refer to Faculty

Subject Description: A special topic selected from any area of marketing. The selection would be made by the Head of the Discipline, taking into account the expertise of academic staff, including visiting staff, and the interest of students.

MARK956 New Product Marketing

Credit Points: 6

Not on offer in 2005

Subject Description: New products are the

MARK957 International Marketing Strategy

Credit Points: 6

Not on offer in 2005

Subject Description: The course will encompass the issues involved in international marketing. Primary focus will be on the strategic aspects with particular emphasis on environmental consideration and international marketing decisions in the global context. A managerial perspective will be adopted and decision-making skills will be imparted through the case method of instruction.

MARK959 Sales Management

Credit Points: 6

Not on offer in 2005

Subject Description: This course involves organising and planning the company's overall personal selling efforts and integrating these efforts with the other elements of the firm's marketing strategy. It also includes the selecting of appropriate sales personnel and designing and implementing policies and procedures that will direct their efforts towards the firm's desired objectives. The final part of the course involves developing procedures for monitoring and evaluating sales force performance so that adjustments can be made to either the sales program or its implementation when performance is unsatisfactory.

MARK970 Contemporary Issues in Marketing

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Spring 3 hr

Subject Description: This course will focus on advanced topics in marketing and strategic issues relating to marketing. Emphasis will be placed on reviewing contemporary readings in the academic and professional literature, together with a focus on practical issues affecting marketing.

MARK977 Research For Marketing Decisions

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Refer to Faculty

Subject Description: This subject focuses on the role & practice of marketing research in marketing. Marketing research can be defined as the systematic collection, analysis and interpretation of data about market-related and other

consumer behaviour, using research methods derived from the behavioural & social sciences. Marketing research is an important means through which all types of organisations can obtain reliable and valid information about their markets, customers or clients in order to inform their marketing-related decisions. This subject will provide an overview of marketing research as an applied practice and will emphasize the practical aspects of doing research to meet client needs. It will cover the marketing research process beginning with client consultation and research design, as well as data collection, data analysis and report preparation.

MARK989 Marketing Special topic

Spring	Wollongong	On Campus
Autumn	Wollongong	On Campus

Credit Points: 12

Contact Hours: Refer to Faculty

Subject Description: A program of coursework and reading as prescribed by the Head of School. This subject is normally available only to MCom(Honours) students.

MARK990 Minor Thesis

Spring	Wollongong	On Campus
Autumn	Wollongong	On Campus

Credit Points: 24

Contact Hours: Refer to Faculty

MARK991 Major Thesis

Annual	Wollongong	On Campus
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Credit Points: 48

Contact Hours: Refer to Faculty

MARK995 Tourism Marketing

Credit Points: 6

Not on offer in 2005

Subject Description: This subject introduces, discusses and analyses issues unique to the marketing of tourism products. The focus of this subject is the application of marketing principles and theory in the development of strategic marketing plans for tourism products. The application of strategic tourism marketing planning to the destination, accommodation and tour operator sectors of the tourism industry at the regional, national and international level are critically analysed. In addition, the subject identifies and discusses contemporary issues in tourism marketing including the impact of e-commerce, database marketing and environmental based tourism.

MARK997 Retail Marketing Management

Credit Points: 6

Not on offer in 2005

Subject Description: This subject will include a background to retailing, the scope of retailing, retailing strategies, merchandise and store management. Particular emphasis will be placed on case analysis in order to bring as much of the real world as possible into the classroom.

MGMT908 Human Resources Development

Autumn	Wollongong	On Campus
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Credit Points: 6

Contact Hours: Refer to Faculty

Subject Description: This subject provides an advanced perspective on the use of Human Resource Development (HRD) in enhancing the competitive advantage of organisations, by building up the intellectual and learning system capacities of the organisation to cope with a rapid change, customer focused environment. The concept of the Learning Organisation will be developed through the perspective of the HRD policies and actions required to develop and change organisations through their human capital and capabilities.

MGMT910 Strategic Management

Spring	Wollongong	On Campus
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Credit Points: 6

Contact Hours: Spring 3 hrs

Subject Description: This subject introduces students to concepts and practical issues concerned with the strategic management. Topics examined include strategy formulation, choice and implementation; strategy and structure and the organisational context; industry analysis; strategy and competitive advantage.

MGMT911 Organisational Behaviour

Spring	Wollongong	On Campus
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Credit Points: 6

Contact Hours: Refer to Faculty

Subject Description: This subject analyses and applies research findings, practice and skills in regard to leadership and team dynamics. The main issues for discussion include: nature and importance of leadership; traits and characteristics of leaders; effective leadership behaviours and attitudes; leadership styles; power and politics; team dynamics; motivation and coaching; problem-solving; communication; conflict resolution; diversity and leadership development.

MGMT915 Management of Change

Spring	Wollongong	On Campus
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Credit Points: 6

Contact Hours: Refer to Faculty

Subject Description: This subject analyses how managers can conceptualise and lead the process of organisational change. Issues under discussion will be: organisational change theories and models; forces for change; resistance to change; coping with change; recognising, diagnosing, planning and implementing change; organisational development; contingency approaches to change; and aspects of cultural change management.

MGMT920 Organisational Analysis

Autumn	Wollongong	On Campus
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Credit Points: 6

Contact Hours: Autumn 3hrs

Subject Description: This subject provides students with an understanding of the main theoretical frameworks and conceptual tools used to analyse organisations. The subject approaches organisational analysis using four

perspectives: bureaucratic, contingency, political, and cultural. Emphasis is placed on understanding the basis in theory and metaphorical roots of each perspective, as the foundation for using a multiple perspectives approach to identify the key dynamics of organisations.

MGMT930 Strategic Human Resource Management

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Refer to Faculty

Subject Description: This subject examines strategic management concepts and frameworks, and explores the links between strategic management and human resource management. A number of models of strategic HRM are considered, in terms of their theoretical foundations and practical utility. The overall focus is on using the conceptual and analytical frameworks of strategic HRM to develop and implement effective human resource strategies.

MGMT940 Innovation and Entrepreneurship

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Refer to Faculty

Subject Description: True Entrepreneurship and Innovation are key to the future economic development in many nations. This subject investigates the Innovation and Entrepreneurial processes, including New Venture Creation and Intrapreneurship. Students will learn how to differentiate between a good idea and a real business opportunity. A key part of this subject is the development of a realistic written business plan for an innovative business opportunity and its presentation via an action learning process utilising teams.

MGMT941 Small Business Management I

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Refer to Faculty

Subject Description: The smaller enterprise is becoming increasingly important to the economic well being of many nations. This subject has both a theoretical and practical focus by giving students an opportunity to develop their awareness and understanding of the key factors in successfully starting, operating and growing a SME. Detailed investigation of realistic SME scenarios as well as the growth area of franchising is undertaken by students.

MGMT946 Personal Learning: The Reflective Manager

Credit Points: 6

Not on offer in 2005

Subject Description: This subject covers a range of theories and skills to assist the manager in developing their capacities as a 'reflective' practitioner. Topics include: personality types; interpersonal psychology; perceptions of self and others; risk perception and locus of control; issues of ethics, guilt, shame and responsibility.

MGMT949 Performance Management

Credit Points: 6

Not on offer in 2005

Subject Description: This subject examines the area of performance management, defined as an ongoing communication process that, ideally, involves both the performance manager and employee in identifying and describing essential job functions and relating them to the mission and goals of the organisation; developing realistic and appropriate performance standards; giving and receiving feedback about performance; writing and communicating constructive performance evaluations and planning education and development opportunities to sustain, improve or build on employee work performance.

MGMT963 Management of Occupational Health and Safety

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Refer to Faculty

Subject Description: This subject examines issues associated with the establishment of programs for the effective management of Occupational Health and Safety and Rehabilitation. Topics include: Technical and motivational programs, the role of the specialist, benefit-cost analysis, emergency and disaster management, networking within and between organisations, design of accident investigation and hazard assessment reporting systems, and the impact of work organisation on occupational health and safety.

MGMT969 Job Analysis, Recruitment & Selection

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Refer to Faculty

Subject Description: This subject examines contemporary issues and theory related to processes of organisational entry, involving the key phases of job analysis, recruitment, selection and socialisation. Recruitment strategies are assessed from the perspective of the organisation and the individual in the light of contemporary theoretical developments. A range of personnel selection techniques is examined in relation to issues of reliability, validity, fairness and applicability. Organisational entry processes are critically evaluated in the context of differing cultural expectations and practices. A range of practical skills in recruitment and selection processes are also developed.

MGMT975 Negotiation Advocacy and Bargaining

Credit Points: 6

Not on offer in 2005

Exclusions: Not to count with ECON975

Subject Description: The subject develops concepts and techniques for the choice and evaluation of strategies and tactics in collective bargaining and advocacy. Much of the subject will involve case studies and role playing.

MGMT978 Cross Cultural Management

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Refer to Faculty

Subject Description: The subject explores management practices, issues and theory across cultures in international business. It seeks to engage students with problems

associated with management practices in a context of increasing global contact. Topics include the communication, technology, comparative management practices, managing with multicultural policies and the implications of culture for international/global managers. On successful completion of this course, students will have an appreciation and knowledge of managing across cultural boundaries in international business.

MGMT983 Leading Organisations: Politics, Power and Change Agency

Credit Points: 6

Not on offer in 2005

Subject Description: This subject provides students with the ability to reflect upon and improve their capacity to act effectively as an innovator and change agent. It introduces students to the nature of power and politics in organisations, how this dimension of organisational life impacts upon individual careers and organisational success, commonly recommended approaches and techniques for managing politics, and the personal and ethical issues involved in either participating in or abstaining from politics. The subject reviews current management research on organisational politics and change management, and provides checklists, case studies, guidelines and exercises for improving the students practical knowledge and experience.

MGMT986 Special Topics A

Credit Points: 6

Not on offer in 2005

Subject Description: Approved program of study agreed with the Head of the Department of Management

MGMT987 Management Special Topic

Spring	Wollongong	On Campus
Autumn	Wollongong	On Campus

Credit Points: 12

Contact Hours: Refer to Faculty

Subject Description: Approved program of study agreed with the Head of Discipline for Management

MGMT990 Minor Thesis

Annual	Wollongong	On Campus
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Credit Points: 24

Contact Hours: Refer to Faculty

Subject Description: Approved program of study agreed with the Head of the Department of Management or Course Director.

MGMT991 Major Thesis

Annual	Wollongong	On Campus
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Credit Points: 48

Contact Hours: Refer to Faculty

Subject Description: Approved program of study agreed with the Head of Discipline for Management Course Director.

PEIS102 An Introduction to Web Programming

Credit Points: 6

Not on offer in 2005

Pre-requisites: Nil.

Co-requisites: Nil.

Assessment: Participants will be awarded a certificate based on completion of the online project plus satisfactory completion of a practical programming test.

Subject Description: An introduction to the basics of computer programming using popular tools for interactive Web design: Hypertext Markup Language (HTML) and Java Script.

TBS 901 Accounting for Managers

Intake A	Wollongong	Modular
Intake B	Sydney	Modular
Intake C	Wollongong	Modular
Intake D	Sydney	Modular

Credit Points: 6

Contact Hours: 35

Exclusions: ACCY901 or TBS980

Subject Description: This subject is intended for those who need to obtain a better understanding of the principles of accounting and financial management. No previous knowledge or experience is assumed. The subject will introduce you to the role that effective financial management makes within an organisation. The aim is to make you proficient in the use of the accounting data that you receive in your work environment, as well as making you aware of the basis on which key financial decisions are made. You will be introduced to the basic concepts of financial decision-making and the role of financial management in both private and public sector organisations. The concepts and techniques will assist you in the use and interpretation of accounting data and you will become better acquainted with the planning and controlling of resources you have at your disposal.

TBS 902 Statistics for Decision Making

Credit Points: 6

Not on offer in 2005

Subject Description: This unit will provide an in-depth introduction to probability, decision theory, and statistical inference with emphasis on solutions to actual business problems. After developing a foundation in probability theory, the subject will extend this foundation to a set of methodologies for the analysis of decision problems. The unit examines structures for managerial decision making under conditions of partial information and uncertainty. The examination of the use of statistical techniques in managerial decision making processes, including, confidence intervals, hypothesis testing, quality control, simple and multiple regression and factor analysis should be applied in realistic case situations.

TBS 903 Managing People in Organisations

Intake A	Sydney	Modular
Intake B	Wollongong	Modular
Intake C	Sydney	Modular
Intake D	Wollongong	Modular

Credit Points: 6

Contact Hours: 35

Subject Description: This subject introduces students to ideas about managing people in organisations which thematically combine theories and research in organisational behaviour and human resource management. The subject encourages students to think about management and organisations in ways which are multi-disciplinary, problem solving and critical. It encourages intellectual inquiry and debate using a range of sources: theoretical, journalistic, historical, comparative and quantitative. The subject encourages students to evaluate popular management fads in the light of more rigorous theorising and research. It aims to improve the research, critical thinking, writing and speaking skills of students.

TBS 904 Marketing Management

Intake A	Sydney	Modular
Intake B	Wollongong	Modular
Intake C	Sydney	Modular
Intake D	Wollongong	Modular

Credit Points: 6

Contact Hours: 35

Exclusions: MARK922

Subject Description: This subject examines the contemporary view of marketing and focuses on the following areas: identification of marketing opportunities; market segmentation, targeting and positioning; product life cycle; new product development; services marketing and marketing mix decisions.

TBS 905 Economic Analysis of Business Environment

Intake A	Wollongong	Modular
Intake B	Sydney	Modular
Intake C	Wollongong	Modular
Intake D	Sydney	Modular

Credit Points: 6

Contact Hours: 35

Subject Description: This subject aims to introduce students to ideas about managing people in organisations which thematically combine theories and research in organisational behaviour and human resource management. It encourages students to think about management and organisations in ways which are multi-disciplinary, problem solving and critical. The subject encourages intellectual inquiry and debate using a range of sources: theoretical, journalistic, historical, comparative and quantitative. Students are encouraged to evaluate popular management fads in the light of more rigorous theorising and research. The subject aims to improve the research, critical thinking, writing and speaking skills of students.

TBS 906 Information Systems for Managers

Intake A	Wollongong	Modular
Intake B	Sydney	Modular
Intake C	Wollongong	Modular
Intake D	Sydney	Modular

Credit Points: 6

Contact Hours: 35

Subject Description: This subject provides an understanding of the use and impact of information technology in organisations; in particular, it provides an analysis of the

structures and functions of the range of typical computer-based business information systems. The applications of information systems and issues facing managers will be examined. Other issues considered are the integration of discrete applications into the total information system and organisational implications of such integration and automation.

TBS 907 Financial Strategy

Intake A	Sydney	Modular
Intake B	Wollongong	Modular
Intake C	Sydney	Modular
Intake D	Wollongong	Modular

Credit Points: 6

Contact Hours: 35

Pre-requisites: TBS901 or TBS980

Exclusions: FIN 921

Subject Description: This subject provides an introduction to the theory and practice of financial management. The financial manager plays a key role in the development of a company's strategic plan. In particular s/he is concerned with providing advice on which investment opportunities should be undertaken and how they should be financed. Both of these decisions should be taken in the context of maximising the value of the investment made in the company by its shareholders. Investment of funds in assets determines the size of the company, its profits from operations, its business risk and its liquidity. Obtaining the best mix of financing and dividends determines the company's financial charges and its financial risk; which in turn impacts on its valuation. It is the aim of this course to examine many of these issues.

TBS 908 Supply Chain Management

Intake A	Wollongong	Modular
Intake B	Sydney	Modular
Intake C	Wollongong	Modular
Intake D	Sydney	Modular

Credit Points: 6

Contact Hours: 35

Subject Description: Supply Chain Management extends the study of logistics beyond the boundaries of a single organisation, and places particular emphasis on the interfaces between the 'chain' or 'network' of enterprises engaged in moving products, services, and information, from suppliers through intermediaries to end users/ consumers. The overarching framework around which the course content is organised is the Supply Chain Management Performance/ Capability Continuum which has three critical components, i.e. operational excellence; supply chain integration and collaboration; and virtual supply chains. The subject focuses on developing a supply chain strategy, something which many organizations still do not have in place even today. Channel relationships between processors, manufacturers, and distributors is also reviewed, particularly as leading organizations are now openly embracing more collaborative behaviour for mutual benefit. Supply Chain infrastructure and operations topics are reviewed, but more emphasis is given to information technology and systems, as these are the lifeblood of top-performing supply chain. E-Commerce and the new supply chain business models it facilitates also receive significant attention, because this is where so much potential is still to be realised. Transformational change in supply chains is studied from two perspectives, i.e. re-

alignment inside the supply chain itself, and new advanced forms of 'outsourcing'. Living in the Asia-Pacific it is important to understand the regionalisation of supply chains which is well underway, and in some cases, globalization.

TBS 909 Corporate Governance

Credit Points: 6

Not on offer in 2005

Subject Description: The broad aim of this subject is to identify, explain and evaluate the sometimes competing approaches to corporate governance that have defined the terms of the governance debate, to assess the role of public policy in designing and overseeing effective systems of corporate governance and to examine the relationship between governance issues and business. This will provide students with a sound understanding of the complex issues that have to be faced by industry and government in developing effective corporate governance systems.

TBS 912 Quantitative Methods for Decision Making

Intake A	Wollongong	Modular
Intake B	Sydney	Modular
Intake C	Wollongong	Modular
Intake D	Sydney	Modular

Credit Points: 6

Contact Hours: 35

Subject Description: This subject focuses on the quantitative and qualitative techniques available to managers in problem solving and decision making in organisations. Decision making models will be explored and the criteria used for rational decision making under conditions of risk and uncertainty will be examined. This decision making process will focus in areas such as forecasting, linear programming and project planning.

TBS 913 Innovation Topics and Cases

Credit Points: 6

Not on offer in 2005

Subject Description: The subject covers integration issues that must be confronted and managed to create value from technological and business innovation, including: Initiating innovation and incubating novel thinking, technological innovation, the innovation process, theories of innovation, planning innovation, strategy and innovation, R & D management, economic justification and innovation, new products and processes, operations strategy and innovation, process innovation, managing future technologies, public policy and technological innovation, and globalising change.

TBS 918 Strategic Supply Chain Management

Intake A	Sydney	Modular
Intake B	Wollongong	Modular
Intake C	Sydney	Modular
Intake D	Wollongong	Modular

Credit Points: 6

Contact Hours: 35

Pre-requisites: TBS908: Supply Chain Management

Subject Description: This subject extends the study of Supply Chain Management from the introductory study covered in TBS908. This subject examines the development

of Organisational Strategy in the context of Supply Chain Management and the Supply Chain Management Performance/ Capability Continuum, which consists of three critical components - operational excellence, supply chain integration and, collaboration and virtual supply chains.

TBS 920 International Business Strategy

Intake A	Sydney	Modular
Intake B	Wollongong	Modular
Intake C	Sydney	Modular
Intake D	Wollongong	Modular

Credit Points: 6

Contact Hours: 35

Exclusions: TBS984

Subject Description: This subject provides a detailed introduction to management within an international business perspective. Business is becoming increasingly global and firms require managers who understand and can resolve the challenges faced in surviving and succeeding in this competitive environment. Greater internationalization of business requires firms to be more competitive, dynamic, and interdependent. Managers must understand the complexities of global economic, political, socio-cultural, and financial forces and recognize how they affect their firm. Management challenges include dealing with the uncertain external environment, managing cultural diversity, handling the increased risk of international operations, and developing appropriate international strategies. Managers capable of operating in this environment will have truly global skills and will enhance their career prospects in today's exciting international business context.

TBS 921 Strategic Decision Making

Intake A	Wollongong	Modular
Intake B	Sydney	Modular
Intake D	Sydney	Modular
Intake D	Wollongong	Modular

Credit Points: 6

Contact Hours: 35

Subject Description: This subject is theory and case based and will provide a study of the development of strategic decision-making and its application to corporate strategy. The subject consists of three main sections; strategic analysis, strategic choice and strategy implementation. However, it is more realistic to consider these from an integrated point of view and students will be strongly encouraged to develop holistic ideas of strategic decision-making, with emphasis on solutions to actual business challenges. Students should also realise that much of the strategic thinking that will be covered in this subject is also relevant to not for profit organisations. The theme throughout the subject will be to assess strategic capability and determine appropriate strategic actions, by developing a sound understanding of the mechanisms behind industry opportunities and threats. That is not to say that a purely mechanistic view is appropriate. Creativity, divergent lateral thinking and some understanding of risk management are essential requirements. The ability to find company information and develop a sophisticated understanding of case information are also skills that will be developed to encourage an educated approach to strategic decision-making.

TBS 924 Management Project**Credit Points:** 12**Not on offer in 2005**

Subject Description: Students are required to present a management report, to agreed guidelines and to a maximum length of 10,000 words. This project must relate to a student's chosen area of specialisation within the MBA.

TBS 925 Inventory Management**Credit Points:** 6**Not on offer in 2005****Pre-requisites:** TBS 930

Co-requisites: TBS930 may be completed simultaneously with TBS 925.

Subject Description: This subject aims to provide the student with state-of-the-art knowledge of inventory management theory and practice. Topics included will be as follows: materials management; management of storage and retrieval facilities; types of inventory problems; measuring inventory performance; inventory management systems for independent demand items; influence of forecasts and uncertainties of demand and lead time; dependent demand inventory systems; multi-echelon inventory management; decision models for inventory management; simulation models of inventory management systems; and case studies of world-class inventory management.

TBS 926 Manufacturing Management**Credit Points:** 6**Not on offer in 2005**

Subject Description: Manufacturing industry dynamics and manufacturing strategy, value adding in manufacturing, materials flow, manufacturing planning and control including MRP II, ERP, JIT and OPT. Maintenance management, supply procurement, distribution quality control, assurance and improvement, manufacturing information technology, performance management, concept of lean and agile manufacturing. Students are expected to undertake a substantial mini-project that is usually case-based, preferably on an aspect of the student's work experience.

TBS 928 Transport Logistics Management

Intake A	Sydney	Modular
Intake B	Wollongong	Modular
Intake C	Sydney	Modular
Intake D	Wollongong	Modular

Credit Points: 6**Contact Hours** 35

Subject Description: Transport Logistics Management is the study of the materials and related information flows through an organisation, from supply-side to customers/markets. As such, it is a subset of the wider Supply Chain Management topic, which looks at a string or network of organisations working together in collaborative ways, where the emphasis is on managing the interfaces between organisations. TLM focuses more on what is going on inside a single organisation. This subject introduces the notion that a deep understanding of customers' "buying behaviours" is an essential pre-requisite to designing the appropriate logistics operations responses. The concept of 'alignment' is taken further, and seeks to understand more about the cultural

workings inside an organisation, which will largely determine how well logistics plans are implemented on the ground. The leadership style of key elements of the organisation will also be discussed because of the important role it plays in shaping internal sub-cultures. The under-lying theme in the subject is that organisations around the world, big and small, are seeking to 'transform' the way they do business in the new and turbulent e-environment. Logistics is an ideal vehicle for launching such transformations because it cuts across most if not all functions of the enterprise. These transformations can be a combination of both internal change (re-alignment) and external change in the form of outsourcing.

TBS 929 Management of Process Innovation**Credit Points:** 6**Not on offer in 2005****Exclusions:** MGMT933

Subject Description: A key concern of contemporary technology management is improving the rate and quality of process innovation by adopting new methods to successfully integrate environmental, human, organisational and technological factors. This subject introduces the student to the interdependent human and technological character of work systems and provides principles and methodologies for designing more effective organisations. This subject is focused on the 'design' aspects of process innovation and covers in some detail socio-technical system design.

TBS 930 Operations Management

Intake A	Wollongong	Modular
Intake B	Sydney	Modular
Intake C	Wollongong	Modular
Intake D	Sydney	Modular

Credit Points: 6**Contact Hours** 35**Exclusions:** MGMT952

Subject Description: This subject is a study of the design, analysis, decision-making and operations of activities for the production and delivery of goods and services. Topics include: strategic issues, qualitative and quantitative forecasting, facility location, capacity and layout, production planning, scheduling, management of quality, supply chain management and e-business, just-in-time and lean manufacturing, and project management. Whilst some calculations will be part of this subject, the emphasis will be more on the managerial interpretation of the methods and results.

TBS 932 Service Operations**Credit Points:** 6**Not on offer in 2005**

Subject Description: The service sector is an important and growing part of the economy. As a result, Service Operations Management and its impact is widespread. Services and Service Operations Management have some similarities to manufacturing and Production Management yet numerous differences exist and will be highlighted. The subject will focus on three primary areas of knowledge: understanding the nature of services, designing efficient and competitive services and managing the delivery of services.

TBS 933 Procurement Management

Trimester 2 Hong Kong Baptist University On Campus

Credit Points: 6**Contact Hours:** Trimester 2

Subject Description: In most leading firms today, the function that used to be called purchasing, or procurement, has expanded to become Supply Management. This subject looks at the expanded responsibility of procurement and its integration with long-term strategic corporate planning. Procurement now includes participating collaboratively in key material requirements determinations and supplier qualification; and focuses on the management of supplier relations and performance. This subject incorporates all these areas in the development of procurement and supply chain management.

TBS 940 Special Topic in Management - Project Management**Credit Points:** 6**Not on offer in 2005****Exclusions:** MGMT986

Subject Description: The services sector has grown to dominate most western economies, employing more people than manufacturing, and accounting for an increasing proportion of individuals' and organisations' expenditure. However, the sector has generally been much slower than manufacturing in applying the principles of project management. This emerging 'globalising economy', when coupled to more educated, demanding and litigious customers, is creating a strong need for flexible and quick response capabilities in organisations together with strong accountability mechanisms. Managers who are confident in planning, implementing and controlling change(s) through I.T. enhanced capabilities such as project management, are building organisational and personal capabilities which will enhance their organisations whether manufacturing, service or 'not for profit'. This subject analyses key issues in the uses and applicability of Project Management as a management and organisational capability, which includes the use of I.T. based support capabilities such as MS Project, MS Powerpoint and web based support systems.

TBS 941 Advanced Business Studies**Credit Points:** 6**Not on offer in 2005**

Subject Description: This subject provides students with exposure to current theoretical developments in business and management. There is an emphasis on integrative theory, although discipline based theory advances will also be canvassed. It seeks to develop the skills of critical analysis of theory both on the basis of its own assumptions and structure and by exploration of the related research literature. Students also investigate the skills of lateral thinking as they relate to business practice and innovation.

TBS 942 Advanced Business Specialisation Studies**Credit Points:** 6**Not on offer in 2005**

Subject Description: This subject is designed to enable DBA students to become thoroughly familiar with the subject in which they intend to specialise in their later thesis. Students

will be expected to research the area well, using any university facilities available. Industry-based students will also be expected to provide information and knowledge based on their working environment. A substantial knowledge of the relevant literature must be demonstrated. Students will be expected to organise, categorise and discuss the information and issues they identify as part of their specialisation topic. A seminar, report and substantial list of references must be provided.

TBS 943 Advanced Business Research Methods**Credit Points:** 6**Not on offer in 2005**

Subject Description: In this subject students will examine epistemology and methodology in social science and business research, and then explore the foundations for choosing methods and techniques in advanced applied business research. Students will develop and extend analytical skills required for successful doctoral research, including statistical techniques, the use of research software, case studies, ethnography, and surveys, as well as ethical issues in business research, and the influence of ethical considerations on research methods and methodology.

TBS 944 Advanced Business Specialisation Research**Credit Points:** 6**Not on offer in 2005**

Subject Description: In this subject DBA students create a research proposal and develop it into the brief for their DBA research project. Students will be expected to organise the structure of their proposed research project and clearly identify the issues, methodology and sources of reference they will investigate. This will take place in consultation with their DBA supervisor/mentor. There will also be regular class meetings where students will be expected to provide a progress report and receive feedback from colleagues and academic staff.

TBS 950 Quality in Management**Credit Points:** 6**Not on offer in 2005**

Subject Description: The purpose of this subject is to provide the student with an understanding of how an organisation can successfully make the transition to Total Quality Management. The approach is to explore the concepts and methods of TQM developed initially in the USA and subsequently further developed in Japan; to examine more recent developments, including the extension of TQM into the service sector, and to provide a basic understanding of the philosophical, analytical and statistical bases of TQM methodology together with some experience(s) of using that methodology.

TBS 951 Statistics for Quality Management**Credit Points:** 6**Not on offer in 2005****Exclusions:** TBS902

Subject Description: Topics covered in this subject include quality theory including 'six sigma' and the 'seven tools of quality'. A comprehensive approach to statistics to meet the

needs of students from diverse backgrounds. The subject provides a theoretical and practical grounding in statistical process quality (SPC). Students will be required to demonstrate their understanding of SPC using real case studies from organisations or companies selected by the student. The subject will create a direct link between statistical concepts delivered in lectures and real cases in the area of quality and a direct link between SPC and regression analysis.

TBS 952 Implementing Quality Systems

Credit Points: 6

Not on offer in 2005

Subject Description: This subject addresses the systems employed for ongoing quality management, including quality control and quality assurance, as well as improvement of quality. Included is an examination of systems thinking as it applies to quality management; the scope of modern quality systems; ISO quality system certification; continuous improvement methodologies, quality system implementation; various practical high impact methodologies and tools; the financial systems to support quality management endeavours; and case studies.

TBS 953 Management of Service Quality

Credit Points: 6

Not on offer in 2005

Pre-requisites: TBS950

Co-requisites: TBS950 may be completed as a co requisite.

Subject Description: This course identifies and examines the framework of understanding from which the Management of Service Quality can be analysed and improved, as a contribution to the long term Competitive Advantage of Organisations in rapid change economies. The course will review the main theories and approaches to Service Management, and will develop case studies and exemplars of best practice service management for a range of industries and organisations. This subject is based on a framework of service issues that allows common principles of both manufacturing and service organisations to be studied. Similarities, contrasts and unique topics in each industry are pointed out so that the widest variety of students will feel comfortable with the subject material. The combination of text, short cases and readings make this subject suitable for an introductory subject in service quality. The assignments allow for in-depth analysis for students with prior service experience.

TBS 954 Quality Management and Design

Credit Points: 6

Not on offer in 2005

Pre-requisites: TBS950

Subject Description: This course emphasises the application of organisation level improvement techniques in the effective management of Learning Organisations in a post industrial rapid change economy. Issues covered emphasise Organisational Performance Measurement (OPM) and improvement, and develop intellectual frameworks for:- the contribution of good design to the effective management of quality systems in organisations; the establishment of new styles of competitive advantage through quality systems in

Learning Organisations; using OPM to improve specific quality environments and the development of case studies for good organisational design; coverage of methodologies for designing and integrating quality into organisational systems, and a futures perspective on the likely successful features of quality organisations in non ferrous manufacturing environments such as transgenics, nanotechnologies, molecular manufacturing.

TBS 955 Quality Assurance

Credit Points: 6

Not on offer in 2005

Pre-requisites: TBS950

Subject Description: This course provides an opportunity for specialised interest study within the Quality management program, by developing the following frameworks of understanding:- The terminologies and propose of Quality Assurance; studies of selected methodologies of Quality Assurance; a Case Study in Quality Assurance: preparing an organisation for a selected QA award or accreditation.

TBS 970 Management Project Planning

Credit Points: 6

Not on offer in 2005

TBS 971 Quality Management Project

Credit Points: 6

Not on offer in 2005

Pre-requisites: TBS970

TBS 980 International Financial Management

Intake A	Wollongong	Modular
Intake C	Wollongong	Modular
Intake B	Sydney	Modular
Intake D	Sydney	Modular

Credit Points: 6

Contact Hours: 35

Exclusions: ACCY928 OR ACCY905 OR FIN 928 OR TBS 901

Subject Description: This subject introduces students to financial management in an international context. In any one intake, the topics will be selected from the following: Financial environment of international corporate activity; foreign exchange and derivatives markets; methods of foreign exchange risk measurement and management; overview of international financial markets and instruments; financing of foreign trade and foreign direct investments; international working capital management; investment decision making in an international context, including country risk analysis; international aspects of controlling, reporting and performance analysis; effects of government regulation on management decision making.

TBS 981 Employment Relations in an International Context.

Intake A	Wollongong	Modular
Intake B	Sydney	Modular
Intake C	Wollongong	Modular
Intake D	Sydney	Modular

Credit Points: 6

Contact Hours: 35

Subject Description: On successful completion of this subject students should be able to understand the complexities of human resource management and employment relations in the current international context. They should be able to deal with material on international human resource management and employment relations from an academic and practical perspective.

TBS 982 Advertising and Marketing in a Global Economy

Intake A	Sydney	Modular
Intake B	Wollongong	Modular
Intake C	Sydney	Modular
Intake D	Wollongong	Modular

Credit Points: 6

Contact Hours: 35

Subject Description: The objective of this subject is to provide both a theoretical and practical perspective to advertising communications and promotion management in a global economy. Thus, by adopting the perspective of the product manager or marketing manager, the subject examines the development and implementation of promotional programmes.

TBS 983 International Economic Environment for Business

Intake A	Sydney	Modular
Intake B	Wollongong	Modular
Intake C	Sydney	Modular
Intake D	Wollongong	Modular

Credit Points: 6

Contact Hours: 35

Subject Description: This subject aims to introduce to students, and develop their understanding of, those factors shaping the international economic environment in which business now operates. The subject examines the background to globalisation and then three core areas of international business. These (trade and trade barriers, international investment and foreign exchange) will be considered separately and then together in the context of the major international institutions charged with promoting trade, investment and monetary stability.

TBS 984 International Business

Intake A	Wollongong	Modular
Intake B	Sydney	Modular
Intake C	Wollongong	Modular
Intake D	Sydney	Modular

Credit Points: 6

Contact Hours: 35

Exclusions: TBS920

Subject Description: This subject provides an introduction to management within an international business perspective. Business is becoming increasingly global and firms require managers who understand and can resolve the challenges faced in surviving and succeeding in this competitive environment. Greater internationalisation of business requires firms to be more competitive, dynamic, and interdependent.

Managers must understand the complexities of global economic, political, socio-cultural, and financial forces and recognise how they affect their firm. Management challenges include dealing with the uncertain external environment, managing cultural diversity, handling the increased risk of international operations, and developing appropriate international strategies. Managers capable of operating in this environment will have truly global skills and will enhance their career prospects in today's exciting international business context.

TBS 985 Communication for International Business

Credit Points: 6

Intake A	Sydney	Modular
Intake B	Sydney	Modular
Intake C	Sydney	Modular
Intake C	Wollongong	Modular
Intake D	Sydney	Modular
Intake D	Wollongong	Modular

Exclusions: ELL901 or ELL903

Subject Description: This subject provides opportunity for students to develop the various communication skills essential to academic and in international business environments. The academic and general literacy skills targeted include efficient gathering, critical analysis and effective presentation of information, taking effective notes, summarising, reporting and avoiding plagiarism, while professional communication skills may include interviewing, and collaborative writing of business reports. Supported by web-based resources, the subject is delivered through intensive workshops, which involve continual development and assessment of: vocabulary, reading comprehension, goal setting and task analysis, group work, critical discussion, summarising and reporting, public speaking and text editing. The communications to be practised relate directly to the other core subjects of the MIB program.

TBS 990 Special Topic in Business

Credit Points: 6

Not on offer in 2005

Subject Description: Topic to be approved by the Director of the Business School.

TBS 991 Management Project - Part 1

Credit Points: 6

Not on offer in 2005

TBS 992 Management Project - Part 2

Credit Points: 6

Not on offer in 2005

TBS 995 Business Research – Principles and Processes

Credit Points: 12

Not on offer in 2005

Subject Description: There is an emphasis on integrative theory, although discipline based theory advances will also be canvassed. It seeks to develop the skills of critical analysis of

theory both on the basis of its own assumptions and structure and by exploration of the related research literature. Students also investigate the skills of lateral thinking as they relate to business practice and innovation.

TBS 996 Research Methodology: Qualitative and Quantitative

Credit Points: 12

Not on offer in 2005

Pre-requisites: TBS 995

Subject Description: In this subject students will examine epistemology in social science and business research, and then explore the foundations for choosing methods and techniques in advanced applied business research. Students will develop and extend analytical skills required for successful doctoral research, including statistical techniques, the use of research software, case studies, ethnography, and surveys, as well as ethical issues in business research, and the influence of ethical considerations on research methods and methodology.

TBS 997 Literature Review and Annotated Bibliography

Credit Points: 12

Not on offer in 2005

Pre-requisites: TBS 995 & TBS 996

Subject Description: This subject is designed to enable students to become thoroughly familiar with the subject in which they intend to specialise. Students will be expected to research the topic to a very high level of expertise, using all university facilities available. Industry based students will be expected to provide academically sound information and knowledge based on their work environments. All students will be expected to demonstrate an appreciation for application of knowledge and information to a real business situation. A substantial knowledge of the relevant literature must be demonstrated. Students will be further expected to organise, categorise and discuss the information and issues relevant to their research to an exceptionally high level. A seminar report, substantial list of references and annotated bibliography must be produced.

TBS 998 Proposal and Defence

Credit Points: 12

Not on offer in 2005

Pre-requisites: TBS 995, TBS 996, TBS 997

Subject Description: Students are expected to produce a 9,000 – 10,000 word research proposal paper in a structured framework. The proposal is to be based on previous study consisting of statement and description of research problems, brief literature review and the establishment of conceptual framework. The work should then go on to clearly state aims, research methods and anticipated findings. Students will then be expected to defend their work in a one hour seminar. The work will be carried out under the supervision of an appointed DBA student supervisor.

CREATIVE ARTS SUBJECT DESCRIPTIONS

CREA921 Research Topics in Creative Arts

Annual	Wollongong	On Campus
Spring2005/		
Autumn2006	Wollongong	On Campus
Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus

Credit Points: 24

Contact Hours: Refer to Faculty

Assessment: Assessment will be by two internal assessors.

Subject Description: This subject provides students enrolled in the Master of Arts - Research degree with training in the theories and research methodologies current in their chosen discipline areas. This training involves three modules of study: 1. a specific theory and methods module; 2. an advanced content-based module in the student's discipline area; and 3. a module in which the student writes a detailed research proposal for the Master of Arts thesis. The precise content of these modules will be determined on a case-by-case basis, between the student and the supervisor. It will be approved by the Head of Postgraduate Studies.

DESN910 Graphic Design and New Media Theory

Autumn	Wollongong	On Campus
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Credit Points: 12

Contact Hours: Refer to Faculty

Assessment: Seminar delivery accompanied by a professional document. Literature review. Design positioning document. Assessment will be by the Subject Co-ordinator or nominee.

Subject Description: Students are required to deliver a seminar, accompanied by a professional document (2000 words), as well as conduct a literature review and develop a design positioning document. These tasks should explore historical and contemporary theoretical issues concerning graphic design and new media arts, and comparative design movements. Students are expected to work in consultation with their Subject Coordinator on all aspects of documentation. All documentation, reports and essays should refer to appropriate historical and/or contemporary theoretical frameworks operating within graphic design new media, and must comply with the Faculty approved MLA text and visual referencing system. Guest designers and industry representatives will lead discussion on relevant design issues.

DESN911 Studies in Process and Analysis - Graphic Design and New Media

Spring	Wollongong	On Campus
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Credit Points: 12

Contact Hours: Refer to Faculty

Assessment: 4,000 word paper. Assessment will be by the Subject Co-ordinator or nominee.

Subject Description: Students will submit a paper (4000 words) that develops a design concept based on relevant research, technical issues and design process. This document will demonstrate research and critical analysis of the issues involved in producing a creative design work and may refer to examples of similar work by recognised designers or design movements. Students will be expected to work independently and at an advanced level and consult with

their Subject Co-ordinator at specified benchmark times in the development of this work.

DESN913 Major Presentation - Graphic Design and New Media

Annual	Wollongong	On Campus
Spring 2005/		
Autumn 2006	Wollongong	On Campus

Credit Points: 24

Contact Hours: Refer to Faculty

Assessment: Assessment will be by two internal assessors. Students will be awarded a 'satisfactory' or 'unsatisfactory' grade for this subject.

Subject Description: Students will develop a substantial portfolio presentation that demonstrates original thinking, knowledge of the design area and technical and production abilities that are required to produce a major piece of design work in a sustained thematic and cohesive way. As an example of content, designers would submit 10 graphic design works; interactive designers would produce a major interactive web site or multimedia piece or several smaller sites or multimedia works. All students are required to document the design process as it relates to their creative project, using an electronic, web based process journal, which includes images, notation and project management details. DESN913 work must demonstrate a deep link to industry/design practice with the possibility of real or applied outcomes. Students must start the course with an industry/design connection of their own, one they bring with them to the Faculty. Alternatively, on entry into the MCA, students must frame an industry/design connection for their DESN913 presentation based on a relationship established with, or a survey of, practising design possibilities in the Wollongong/Sydney area. In either case, all due ethical considerations must be taken into account and complied with during the entire course of the project and the student will be required to develop sophisticated professional networking skills. The outcome will be an emphasis on practising design presented as an industry style, rather than exhibition style - with relevant parties to the development of the project invited to the opening of the final project presentation. Students must submit a detailed outline of their proposed work (research/production schedule) for the major presentation to the supervisor(s) by the fourth week of enrolment. A cross-disciplinary approach may be possible.

DESN921 Creative Industries: Design for Interactive Multimedia

Spring	Wollongong	On Campus
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Credit Points: 6

Contact Hours: Spring 1 hr lecture and 2 hr tutorial each week

Exclusions: Not to count with DESN129.

Assessment: Design projects 60% Process 40%

Subject Description: This subject provides an introduction to design fundamentals and the values of visual design to interactive multimedia production. Students will explore formal composition principals, application of type and image, and approaches to digital layout. Within a framework of weekly lectures and tutorials, students will be required to undertake

research and develop design concepts and solutions to set project briefs.

JOUR901 News and Feature Writing

Autumn	Wollongong	On Campus
Autumn	Wollongong	Distance

Credit Points: 6

Contact Hours: Three hours one day per week for on campus students.

Assessment: Written assignments and practical work.

Subject Description: This foundation subject develops basic skills in straight news reporting to extended feature writing for newspapers and magazines. Attention will be given to subjective aspects of news and feature writing, including the use of comment and opinion; colour stories; the contribution of 'new journalism' to writing human interest stories; interviewing and information gathering techniques; and the application of conventional news values to reporting.

JOUR902 Journalistic Method & Practice

Autumn	Wollongong	On Campus
Autumn	Wollongong	Distance
Autumn	Open Uni of Hong Kong	Flexible

Credit Points: 6

Contact Hours: Three hours one day per week for on campus students.

Assessment: Written assignments, practical exercises and an essay.

Subject Description: This subject considers the basic attributes of news, the nature of news construction, theories of news making and the structure of news narratives. It takes students through the process of initiating to the completion of a news assignment. Practical areas of discussion are: the structure and conventions of a news round, use of recording devices, interview techniques, working with photographers and camera teams, packaging of news copy, news construction, follow-ups and news management.

JOUR903 Ethics, Law and Standards

Autumn	Wollongong	On Campus
Autumn	Wollongong	Distance

Credit Points: 6

Contact Hours: Three hours one day per week for on campus students.

Assessment: Written assignments, essays, hypotheticals.

Subject Description: This subject examines the legal and ethical framework which governs the work of journalists. It considers the nature, efficacy and administration of ethical codes relevant to journalism, particularly the Media Entertainment and Arts Alliance (MEAA) Code of Ethics and the Australian Press Council's Statement of Principles. Other aspects of professional conduct and professional standards considered include guarding against defamation actions; libel laws; breach of privacy; confidentiality; protection of sources; standards of accuracy, fairness and subjectivity in journalism.

JOUR931 Broadcasting Journalism

Spring	Wollongong	On Campus
Spring	Wollongong	Distance

Credit Points: 6

Contact Hours: Three hours one day per week for on campus students.

Assessment: Assignments and studio work.

Subject Description: This subject provides advanced skills in script writing, editing, producing and presenting radio news and current affairs programs. The course has a strong practical component. NOTE: This subject provides the foundation for Current Affairs Journalism JOUR942.

JOUR932 Television Journalism

Spring	Wollongong	On Campus
Spring	Wollongong	Distance

Credit Points: 6

Contact Hours: Three hours one day per week for on campus students.

Assessment: Script, proposal, and production assessment with integrated theory.

Subject Description: This subject provides advanced skills in script writing, editing, producing and presenting television news and current affairs programs. A primary emphasis will be placed on techniques for gathering television news or documentary materials in the field. NOTE: This subject provides the foundation for Current Affairs Journalism JOUR942.

JOUR933 On-Line and Research Journalism

Autumn	Wollongong	On Campus
Autumn	Wollongong	Distance

Credit Points: 6

Contact Hours: Three hours one day per week for on campus students.

Assessment: Written and field assignments.

Subject Description: This subject is designed to develop a range of research and journalism investigative methods. It will include the use of online data bases, the Internet, library and archive work and other sources of public information. The use of survey material in journalism will be studied, particularly the presentation of this data in a news format. The organisation of news investigation teams, the techniques that they use, and what they produce will be analysed. Part of the subject will be devoted to news design and presentation on the World Wide Web.

JOUR934 Print Production and Publication

Spring	Wollongong	On Campus
Spring	Wollongong	Distance

Credit Points: 6

Contact Hours: Three hours one day per week for on campus students.

Assessment: Written assignments and workshop assessment.

Subject Description: This subject focuses on the production of inhouse newsletters and magazines by a combination of conventional techniques and desktop publishing. Topics include copy preparation and editing, principles of typography, news layout, news illustration, production planning and desktop publishing applications.

JOUR936 International Journalism

Spring	Wollongong	On Campus
Spring	Wollongong	Distance

Credit Points: 6**Contact Hours:** Three hours one day per week for on campus students.**Assessment:** Assignments and one hour examination in class.

Subject Description: This seminar-based subject focuses on international news flow in the context of the New World Information Order debates in the early 70s and news flow in the context of Internet communication; culture, values and ideology in international news production (discussions derived mainly from Australian reporting of Asia); media systems in selected Asia-Pacific countries; and renewed interest in community development oriented journalism.

JOUR942 Current Affairs Journalism

Spring	Wollongong	On Campus
Spring	Wollongong	Distance

Credit Points: 6**Contact Hours:** Three hours one day per week for on campus students.**Assessment:** Script, proposal and production assessment with integrated theory.

Subject Description: This subject provides practical instruction in the preparation of current affairs programs in radio, television and multi-media. A simulated producer journalist environment will provide opportunities for specialisation in one of the three media areas. Unless a student has prior experience, Current Affairs Journalism is to be elected at the same time as either Television Journalism or Broadcast (Radio) Journalism. Students will be able to develop a current affairs project that is informed and designed from within Television Journalism or Broadcast (Radio) Journalism and then develop the project within the Current Affairs subject. This provides the opportunity for a 12 credit point context, thus adequate time to develop a current affairs piece that involves time consuming production, writing and editing.

JOUR943 Directed Readings in Journalism

Spring	Wollongong	On Campus
Spring	Wollongong	Distance

Credit Points: 6**Contact Hours:** Directed readings/tutorials.**Assessment:** Major written evaluation of about 8,000 words of the selected reading program.

Subject Description: This subject enables students to extend their knowledge of the theory and practice of journalism by directed reading courses in selected topics. Topics available include: structure of the Australian news media; news media management in the cyberage; comparative media systems and practices; qualitative studies of individual journalists and their work; and textual analysis. On the advice of an academic adviser, students have the option of nominating their own topic.

JOUR945 Advanced Journalism Project

Spring	Wollongong	On Campus
Spring	Wollongong	Distance

Credit Points: 6**Contact Hours:** Directed research/consultation.**Assessment:** Written evaluations of progress; final research report of 8,000 words which may include electronic media and print production material.

Subject Description: This subject provides a shorter alternative project for final session students not wanting to undertake the major project, or electing to do additional course work, or wanting to develop vocational skills acquired in previous subjects. Project areas available include: news design and presentation on the World Wide Web; print media production; electronic news gathering and production; multimedia production or a short film or radio piece in the documentary and current affairs mode. Alternatively students wanting to cover broader aspects of news gathering and presentation can do so, in the following areas: environment; science and technology; public affairs; arts; lifestyle and leisure; economics and business; religion; and sports. Concepts and skills can focus on print production or the electronic journalistic genre.

JOUR949 Multicultural Journalism

Spring	Wollongong	On Campus
Spring	Wollongong	Distance

Credit Points: 6**Contact Hours:** Three hours one day per week for on campus students.**Assessment:** Assignments and publications.

Subject Description: This subject provides an historical, cultural and social background for students wanting to work in Australia's growing multicultural media. It will give practical instruction in multicultural print, electronic and multi-media news applications. Particular emphasis is placed on differences between news production and presentation in multicultural media and traditional media.

JOUR991 Major Journalism Project

Spring	Wollongong	On Campus
Spring	Wollongong	Distance

Credit Points: 12**Contact Hours:** Directed research/consultation.**Assessment:** Two interim reports and major research or fieldwork report.

Subject Description: This subject is designed to give students the opportunity to undertake either a major research project or substantial supervised practical work. In particular, it allows students to complete an internship with a media organisation. Such placement should generally have a minimum duration of six weeks. Students on internship are required to submit detailed records of their work experience, supported by verification from the media organisation, and an internship report of 3,000 words. Research projects should be linked directly to subject areas represented in the journalism schedule, and may include an essay of 10,000 words, visual, sound or multi-media components.

JOUR992 Research Topics in Journalism

Spring	Wollongong	On Campus
Autumn	Wollongong	On Campus

Credit Points: 24**Contact Hours:** As arranged with supervisor.

Assessment: See subject description.

Subject Description: This subject will provide students enrolled in the Master of Arts - Research (Journalism) degree with training in the theories and research methodologies current in their chosen discipline areas. This training involves three modules of study: (1). a specific theory and methods module. 5,000 - 7,000 words, possibly one short and one long essay. Seminar participation if determined will be assessed (2). an advanced content-based module in the student's discipline area requiring the completion of the contents of an existing subject and (3). a module in which the student writes a detailed research proposal for the thesis covering: - an annotated bibliography 40% - the development of thesis question and rationale for chapter divisions, involving exposition of thesis argument 40% and - an oral presentation of the thesis proposal 20% The precise content of these modules will be determined on a case by case basis, with the student and the supervisor. It will be approved by the Program Coordinator.

MUS 910 Music Analysis

Autumn Wollongong On Campus

Credit Points: 12

Contact Hours: Refer to Faculty

Assessment: Students will submit two analytical essays of approximately 4,000 words each on topics related to the student's major and determined in consultation with the Subject Co-ordinator. Assessment will be by the Subject Co-ordinator or nominee.

Subject Description: Students will undertake research-based analysis that addresses specific aspects of their musical practice in performance and/or composition. The study may draw on material such as historical survey, critical commentary, verbal history, archival and other material relevant to the particular areas of theoretical and creative interest.

MUS 912 Studies in Performance Technique

Spring Wollongong On Campus

Credit Points: 12

Contact Hours: Refer to Faculty

Assessment: Students will normally be required to submit essays (up to 4,000 words) and give a presentation of a lecture-recital or equivalent work on a topic related to technique and performance in the student's area of major. Assessment will be by the Subject Co-ordinator or nominee.

Subject Description: Students will attend and participate in a performance seminar.

MUS 913 Major Presentation - Music Performance

Annual Wollongong On Campus

Spring2005/

Autumn2006 Wollongong On Campus

Credit Points: 24

Contact Hours: Refer to Faculty

Assessment: Assessment will be by two internal assessors. Students will be awarded a 'satisfactory' or 'unsatisfactory' grade for this subject.

Subject Description: A 50 minute recital of major works from the instrumental or vocal repertoire, given in the final session of a student's full-time enrolment (or equivalent), is

required. The recital program should be approved well in advance by the supervisor(s). A presentation of a concerto or equivalent work of approximately 20-30 minutes duration is also required. The work (which may, in the case of longer works, be a movement or movements of a concerto) should be chosen in consultation with the supervisor(s) and may be presented with piano reduction as accompaniment. Detailed annotations for both the concerto and recital presentation, of approximately 2,000 words, must be provided four weeks in advance of recital dates. Students must submit a detailed outline of their proposed work for the Major Presentation to the supervisor(s) by the fourth week of enrolment. A cross disciplinary approach may be possible.

MUS 914 Major Presentation - Music Composition

Annual Wollongong On Campus

Spring2005/

Autumn2006 Wollongong On Campus

Credit Points: 24

Contact Hours: Refer to Faculty

Assessment: Assessment will be by two internal assessors. Students will be awarded a 'satisfactory' or 'unsatisfactory' grade for this subject.

Subject Description: Submission of the following is required: 1. A portfolio of at least four compositions, including one major work for large resources or performance media. 2. Sketches, recordings and other supporting material. 3. Analytical commentaries on the works submitted of approximately 2,000 words. Students must submit a detailed outline of their proposed work for the Major Presentation to the supervisor(s) by the fourth week of enrolment. A cross-disciplinary approach may be possible.

MUS 915 Studies in Composition Technique

Spring Wollongong On Campus

Credit Points: 12

Contact Hours: Refer to Faculty

Assessment: Project. Assessment will be by the Subject Co-ordinator or nominee.

Subject Description: Students will participate in composition seminars and workshops as necessary. They will be required to complete a project in one of the following areas following consultation with the Subject Co-ordinator: orchestration; studies in traditional compositional techniques; studies in computer music; multi-media collaborative project.

THEA910 Theatre Analysis

Autumn Wollongong On Campus

Credit Points: 12

Contact Hours: Refer to Faculty

Assessment: Essays (up to 8,000 words). Assessment will be by the Subject Co-ordinator or nominee.

Subject Description: Students will undertake research based analysis, the scope of which may include the survey of historical and archival material, verbal history, critical commentary or the specific detailing of contemporary performance/production methodologies. This analysis should address a particular aspect of the dramaturgy. All work must be submitted by the last teaching week of session.

THEA911 Advanced Techniques in Theatre

Spring Wollongong On Campus

Credit Points: 12**Contact Hours:** Refer to Faculty**Assessment:** Essays (up to 8,000 words). Assessment will be by the Subject Co-ordinator or nominee.**Subject Description:** Students will evolve essays that directly relate historical analysis and development of experimental or new technologies and methodologies with the intention and process of their creative work. All work must be submitted by the last teaching week of session.**THEA913 Major Presentation - Theatre**

Annual Wollongong On Campus

Spring2005/

Autumn2006 Wollongong On Campus

Credit Points: 24**Contact Hours:** Refer to Faculty**Assessment:** Assessment will be by two internal assessors. Students will be awarded a 'satisfactory' or 'unsatisfactory' grade for this subject.**Subject Description:** The Major Presentation is the planning and implementation of a practical demonstration of the student's work. In addition to the realisation of the project, students will give a public presentation accompanied by a 2,000 word analysis of the process undertaken with appropriate annotation and commentary. The parameters of the Presentation must be negotiated with the supervisor(s). Students must submit a detailed outline of their proposed work for the Major Presentation to the supervisor(s) by the fourth week of enrolment. A cross disciplinary approach may be possible.**VISA910 Visual Arts Theory**

Autumn Wollongong On Campus

Credit Points: 12**Contact Hours:** Refer to Faculty**Assessment:** Two essays of approximately 4,000 words each on topics related to the seminar series and after consultation with the lecturer. Assessment will be by the Subject Co-ordinator or nominee.**Subject Description:** This subject aims to explore contemporary arts practice and theory so that students may place their own work within the broader contexts of arts practices, and the debates and developments in the global field of visual culture and postcolonial arts.**VISA911 Studies in Process and Analysis - Visual Arts**

Spring Wollongong On Campus

Credit Points: 12**Contact Hours:** Refer to Faculty**Assessment:** Visual Journal. 2,000 word essay. Seminar presentation. Assessment will be by the Subject Co-ordinator or nominee.**Subject Description:** In consultation with the Subject Co-ordinator, students will prepare a visual journal of their creative work. This will show an analysis of the processes, experimentation, materiality and content of the work. This journal documentation will be accompanied by an essay of

2,000 words. Students will also present a seminar on visual process in the context of their field. Students will be expected to work at an advanced level and with a high degree of independence in their chosen studio discipline.

VISA913 Major Presentation - Visual Arts

Annual Wollongong On Campus

Spring2005/

Autumn2006 Wollongong On Campus

Credit Points: 24**Contact Hours:** Refer to Faculty**Assessment:** Assessment will be by two internal assessors. Students will be awarded a 'satisfactory' or 'unsatisfactory' grade for this subject.**Subject Description:** Students will present a substantial exhibition of work that reflects technical skill, knowledge and use of materials, and an ability to develop, sustain and execute original ideas in a cohesive and thematic way. Preparation of the Major Presentation should occupy students for at least four hours per day for the period of enrolment. As an example of content, painters should submit at least eight major pieces plus drawings and supporting material of exhibition standard. Equivalent amounts of work will be expected of students working in other areas of the visual arts. Students must submit a detailed outline of their proposed work for the Major Presentation to the supervisor(s) by the fourth week of enrolment. A cross disciplinary approach may be possible.**WRIT910 Analysis of Texts**

Autumn Wollongong On Campus

Credit Points: 12**Contact Hours:** Refer to Faculty**Assessment:** Students will present three seminars on topics decided upon in consultation with the Subject Co-ordinator. After the seminar, each presentation will be written up and submitted in the form of an essay of approximately 2,500 words. Assessment will be by the Subject Co-ordinator or nominee.**Subject Description:** In fortnightly seminars students will undertake a detailed study of relevant texts in their the students major which may be in poetry, prose fiction or script writing. The subject aims to develop and refine the ability to trace in detail the relationship between the effects gained by a text and the techniques of writing used to achieve them.**WRIT911 Literary Composition**

Spring Wollongong On Campus

Credit Points: 12**Contact Hours:** Refer to Faculty**Assessment:** Assessment will be based on approximately 5,000 words of experimental writing. Assessment will be by the Subject Co-ordinator or nominee.**Subject Description:** In fortnightly seminars students will be required to develop and refine their awareness of the techniques and processes of literary composition and to demonstrate their control of these through the composition of a major piece of writing in a mode outside of their usual practice. Students will be required to outline the effects they are seeking in their writing and to describe and evaluate the techniques they have employed to achieve these effects.

WRIT913 Major Presentation - Creative Writing

Annual Wollongong On Campus

Spring2005/

Autumn2006 Wollongong On Campus

Credit Points: 24

Contact Hours: Refer to Faculty

Assessment: Assessment will be by two internal assessors. Students will be awarded a 'satisfactory' or 'unsatisfactory' grade for this subject.

Subject Description: Students will present either a work of prose fiction (minimum 25,000 words); or a collection of poetry (48 pages); or a 60 minute theatre/film/television script. Students must submit a detailed outline of their proposed work for the major presentation to the supervisor(s) by the fourth week of enrolment. A cross disciplinary approach may be possible.

EDUCATION SUBJECT DESCRIPTIONS

EDGA806 Practicum in Adult Education

Autumn	Wollongong	Flexible
Spring	Wollongong	Flexible

Credit Points: 8

Subject Description: The practicum in the GDipAdEd allows students to demonstrate their knowledge and performance skills in their work environment. They must demonstrate such basic professional competencies as needs assessment, course design, development, implementation, evaluation, and change management. The practicum is based on an individually defined and negotiated learning contract. Initial meetings will focus on refining ideas and developing a proposal after which students undertake their project with help from a nominated supervisor.

EDGA917 International & Intercultural Perspectives

Spring	Wollongong	On Campus
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Credit Points: 8

Subject Description: Learning and teaching is strongly influenced by international developments in education and by multicultural learning environments. Students will critically analyse issues of language policy, intercultural communication, ethnicity, culture, and power from contemporary international and intercultural perspectives. Students will explore concepts of international education, internationalisation, global education and socio-cultural contexts of teaching, including education in less industrialised regions of the world and education for minority groups.

EDGA920 Curriculum Problems and Issues in Physical and Health Education**Credit Points: 8****Not on offer in 2005**

Subject Description: This subject will examine the development of the curriculum in Physical and Health Education from a historical and social perspective. Particular issues will be taken as case studies. This subject is also intended to assist teachers in clarifying their position in relation to the PDHPE curriculum so that they may take a greater part in the curriculum change process itself and make considered judgements in its implementation.

EDGA921 Scientific Bases of Health Education**Credit Points: 8****Not on offer in 2005****EDGA924 Adolescent Health Status and Behaviour****Credit Points: 8****Not on offer in 2005**

Subject Description: Adolescence provides a crucial access point for the improvement of health, not only now but in adult life and in the next generation. This subject will explore the nature of adolescence and those factors influencing adolescent health. It will examine various strategies implemented in schools and the community to improve adolescent health. It will also examine the assumptions underpinning the adoption of particular approaches rather than others.

EDGA959 Adult Literacy

Autumn	Wollongong	Flexible
Spring	Wollongong	Flexible

Credit Points: 8

Subject Description: Adult literacy education involves assistance for those who have basic literacy problems as well as those who need to extend their language abilities in workplace. This subject will examine how to identify the language demands of various contexts in which adults need to employ various literacy skills, to diagnose the literacy needs of adult clients, and to develop programs to assist clients to extend their literacy proficiency.

EDGA971 Assessment and Evaluation of Language and Literacy

Autumn	Wollongong	Flexible
Spring	Wollongong	Flexible
Autumn	Wollongong	Distance
Spring	Wollongong	Distance
Hamline Intake-February	Hamline Uni Minnesota	On Campus
Hamline Intake-June	Hamline Uni Minnesota	On Campus
Hamline Intake-September	Hamline Uni Minnesota	On Campus

Credit Points: 8

Subject Description: This subject examines both past and current issues and theoretical underpinnings of evaluating student learning. It will critically examine these issues in terms of contemporary theories of language and literacy learning. It will draw on recent research and theory related to the areas of psychometrics, qualitative evaluation, and linguistics. Students will also be required to trial and evaluate a range of assessment and evaluation instruments and procedures. The current move to standards and benchmarks will be addressed.

EDGA976 Text and Context

EDU Intake Jan	Wollongong	Distance
EDU Intake Mar	Wollongong	Distance
EDU Intake May	Wollongong	Distance
EDU Intake July	Wollongong	Distance
EDU Intake Sep	Wollongong	Distance
EDU Intake Nov	Wollongong	Distance

Credit Points: 8

Subject Description: This subject explores the relationship between texts and their contexts, focusing on the nature of language at both the level of text and grammar. It draws on a functional model of language in order to examine the way in which language is used for various purposes, both in the community and in education. Through an analysis of texts students will explore how language functions to represent our experience of the world, to enable our participation in the world, and to shape up texts which are coherent and cohesive.

EDGA985 English in Specific Contexts**Credit Points:** 8**Not on offer in 2005****Pre-requisites:** EDGA976

Subject Description: This subject prepares students to design and teach English projects and programs which address the needs of a specific clientele (e.g. English for Business, in the Workplace, for new arrivals). It examines how language varies across cultural contexts (nationally or internationally) and deals with methods for exploring the contexts and relevant language (academic, vocational, social, personal), using these analyses in the study of projects, teaching programs and materials.

EDGA987 Children's Literature**Credit Points:** 8**Not on offer in 2005**

Subject Description: Students will be guided towards an appreciation, enjoyment, evaluation and critique of a broad range of children's literature in the light of various theories of literary criticism. In addition, participants will become familiar with a number of strategies relating to children's literacy for use in the classroom. Students will be asked to consider the apparent assumptions about children as readers in the texts examined and the relationship between new technologies and children's literature.

EDGC800 Practicum

Annual	Wollongong	On Campus
Annual	Shoalhaven	On Campus

Credit Points: 6

Subject Description: This subject is compulsory practicum component of the degree. It focuses on field experience in schools and on practice teaching in schools. Emphasis is placed on lesson planning and classroom management, and catering for a diversity of learners in the classroom. Students will also be required to reflect on the role of the teacher in child protection and welfare.

EDGC811 Understanding Learning A

Autumn	Wollongong	On Campus
Autumn	Shoalhaven	On Campus

Credit Points: 6

Subject Description: This subject explores the nature of the learner and the role of the teacher. It will include a focus on the psychology and pedagogy of learners with an emphasis on their diverse needs. Issues of classroom management will be explored through the lens of the diversity of learners and their environments. Issues relating to personal development and health will be explored, including child protection and welfare.

EDGC812 Professional Skills A

Autumn	Wollongong	On Campus
Autumn	Shoalhaven	On Campus

Credit Points: 6

Subject Description: This subject covers the skills required of teachers as professionals. Emphasis on the development of language and literacy skills, encompassing communication, listening, interviewing, library researching, reporting and

personal use of information and communication technology. Focus on developing awareness of school culture and the wider community, developing skills in intercultural communication, class management and protocol to support student welfare. Tertiary literacy development is expressed through the organisation and presentation of assessment tasks in a developing portfolio.

EDGC813 Learning and Teaching Contexts A

Autumn	Wollongong	On Campus
Autumn	Shoalhaven	On Campus

Credit Points: 6

Subject Description: This subject is a critical study of the educational policies, historical, social and cultural contexts and philosophical underpinnings of education as they apply to the experiences of learners in schools, in particular NSW schools. This subject focuses on the diversity of school contexts and learners, and the welfare of students. Teachers' values, perceptions and judgements and the way these impact on assessment and evaluation of student learning are systematically explored in conjunction with processes of curriculum development, implementation and evaluation. Emphasis is placed on the ways in which gender, aboriginality, ethnicity, class, sexuality, and difference are constructed. Language use, teaching strategies, student welfare, assessment and information technology in the curriculum are critically examined.

EDGC821 Understanding Learning B

Spring	Wollongong	On Campus
Spring	Shoalhaven	On Campus

Credit Points: 6

Subject Description: This subject continues to develop understandings related to the nature of the learner and the role of the teacher. The key focus in this subject is on the particular needs of learners with special needs, including those who are gifted. The place of physical activity in school contexts will be examined.

EDGC822 Professional Skills B

Spring	Wollongong	On Campus
Spring	Shoalhaven	On Campus

Credit Points: 6

Subject Description: This subject covers the skills required of teachers as professionals operating within the school context. Emphasis is placed on school management organisation and leadership; ESL skills; skills for teaching language across the curriculum and contemporary knowledge and language of the curriculum. This subject focuses on further development of information and communication technology skills, class management, group work and assessment of Learners with Special Needs. Tertiary literacies are expressed through the completion of a professional portfolio encompassing assessment tasks drawn from all subjects.

EDGC823 Learning and Teaching Concepts B

Spring	Wollongong	On Campus
Spring	Shoalhaven	On Campus

Credit Points: 6

Subject Description: This subject is a critical study of the influence of social, historical and theoretical contexts for teaching and learning and the curriculum. By critically examining the theoretical trends in sociology and changes in philosophical ideals, students can make sense of our current teaching and learning milieu: local, national and global. This subject focuses on the use of reflection to understand the impact of teacher values, perceptions and judgements in assessment practices in these diverse contexts. A focus is on the principles of leadership and teamwork and practical approaches to responding to changing needs. It deepens the students' understanding of time, place and identity in relation to educational change.

EDGC851 Science Method A

Annual Wollongong On Campus

Credit Points: 6

Subject Description: This subject will cover the content of the NSW Year 7-10 syllabuses in Science. Included will be the teaching and assessment methods applicable to the NSW Years 7 to 10 syllabuses in Science. There will be critical examination of mandatory policies that affect teachers of Science (including child protection and occupational health and safety). This subject also covers the classroom management practices for teachers of Science. There will be critical examination of syllabuses in Science from other states and countries.

EDGC852 Science Method B

Annual Wollongong On Campus

Credit Points: 6

Subject Description: This subject will cover the content of the NSW Year 11-12 syllabuses in Science. Included will be the teaching and assessment methods applicable to the NSW Higher School Certificate in Science. There will be critical examination of mandatory policies that affect teachers of senior high school Science (including child protection and occupational health and safety). This subject also covers the classroom management practices for teachers of senior high school Science. There will be critical examination of syllabuses in senior high school Science from other states and countries.

EDGC853 Mathematics Method A

Annual Wollongong On Campus

Credit Points: 6

Subject Description: This subject will cover the content of the NSW Year 7-10 syllabuses in Mathematics. Included will be the teaching and assessment methods applicable to the NSW Years 7 to 10 syllabuses in Mathematics. There will be critical examination of mandatory policies that affect teachers of Mathematics (including child protection and occupational health and safety). Programming and planning methods for teaching Mathematics. This subject also covers the classroom management practices for teachers of Mathematics. There will be critical examination of syllabuses in Mathematics from other states and countries.

EDGC854 Mathematics Method B

Annual Wollongong On Campus

Credit Points: 6

Subject Description: This subject will cover the content of the NSW Year 11-12 syllabuses in Mathematics. Included will be the teaching and assessment methods applicable to the NSW Higher School Certificate in Mathematics. There will be critical examination of mandatory policies that affect teachers of senior high school Mathematics (including child protection and occupational health and safety). Programming and planning methods for teaching senior high school mathematics. This subject also covers the classroom management practices for teachers of senior high school Mathematics. There will be critical examination of syllabuses in senior high school Mathematics from other states and countries.

EDGC855 English Method

Annual Wollongong On Campus

Credit Points: 6

Subject Description: This subject will cover the content of the NSW Year 7-12 syllabuses in English. Included will be the teaching and assessment methods applicable to the NSW syllabuses in English. There will be critical examination of mandatory policies that affect teachers of English (including child protection and occupational health and safety). Programming and planning methods for teaching English. This subject also covers the classroom management practices for teachers of English. There will be critical examination of syllabuses in English from other states and countries.

EDGC856 History Method

Annual Wollongong On Campus

Credit Points: 6

Subject Description: This subject will cover the content of the NSW Year 7-12 syllabuses in History. Included will be the teaching and assessment methods applicable to the NSW syllabuses in History. There will be critical examination of mandatory policies that affect teachers of History (including child protection and occupational health and safety). Programming and planning methods for teaching History. This subject also covers the classroom management practices for teachers of History. There will be critical examination of syllabuses in History from other states and countries.

EDGC857 Social Science Method A- (Geography)

Annual Wollongong On Campus

Credit Points: 6

Subject Description: This subject will cover the content of the NSW Year 7-12 syllabuses in Geography. Included will be the teaching and assessment methods applicable to the NSW syllabuses in Geography. There will be critical examination of mandatory policies that affect teachers of Geography (including child protection and occupational health and safety). Programming and planning methods for teaching Geography. This subject also covers the classroom management practices for teachers of Geography. There will be critical examination of syllabuses in Geography from other states and countries.

EDGC858 Social Science Method B- (Economics)

Annual Wollongong On Campus

Credit Points: 6

Subject Description: This subject will cover the content of the NSW Year 7-12 syllabuses in Economics. Included will be the teaching and assessment methods applicable to the NSW syllabuses in Economics. There will be critical examination of mandatory policies that affect teachers of Economics (including child protection and occupational health and safety). Programming and planning methods for teaching Economics. This subject also covers the classroom management practices for teachers of Economics. There will be critical examination of syllabuses in Economics from other states and countries.

EDGC859 English As A Second Language Method

Annual Wollongong On Campus

Credit Points: 6

Subject Description: Included will be the teaching and assessment methods applicable to ESL students. There will be critical examination of mandatory policies that affect ESL teachers (including child protection and occupational health and safety). Programming and planning methods for teaching ESL. This subject also covers the classroom management practices for ESL teachers. There will be critical examination of policies from other states and countries that relate to ESL teaching.

EDGC860 Social Science Method C-(Legal Studies)

Annual Wollongong On Campus

Credit Points: 6

Subject Description: This subject will cover the content of the NSW Year 7-12 syllabuses in Legal Studies. Included will be the teaching and assessment methods applicable to the NSW syllabuses in Legal Studies. There will be critical examination of mandatory policies that affect teachers of Legal Studies (including child protection and occupational health and safety) and programming and planning methods for teaching Legal Studies. This subject also covers the classroom management practices for teachers of Legal Studies. There will be critical examination of syllabuses in Legal Studies from other states and countries.

EDGC861 Method for Primary Teachers A (K-2)

Annual Wollongong On Campus

Annual Shoalhaven On Campus

Credit Points: 6

Subject Description: Included will be the teaching and assessment methods applicable to Early Stage 1 / Stage 1 students (K-2). There will be critical examination of mandatory policies that affect Primary Stage 1 teachers (including child protection and occupational health and safety). Programming and planning methods for teaching Primary Stage 1. This subject also covers the classroom management practices for Primary Stage 1 teachers. There will be critical examination of curriculum and relevant policies from other states and countries that relate to the first three years of learning.

EDGC862 Method for Primary Teachers B (3-6)

Annual Wollongong On Campus

Annual Shoalhaven On Campus

Credit Points: 6

Subject Description: Included will be the teaching and assessment methods applicable to Stage 2 / Stage 3 (years 3-6). There will be critical examination of mandatory policies that affect Stage 2 / Stage 3 (3-6) teachers (including child protection and occupational health and safety). Programming and planning methods for teaching Stage 2 / Stage 3 (3-6). This subject also covers the classroom management practices for Primary (3-6) teachers. There will be critical examination of policies from other states and countries that relate to the next four years of learning.

EDGC871 Music Method A

Annual Wollongong On Campus

Credit Points: 6

Subject Description: This subject will cover the content of the NSW Year 7-10 syllabuses in Music. Included will be the teaching and assessment methods applicable to the NSW Years 7 to 10 syllabuses in Music. There will be critical examination of mandatory policies that affect teachers of Music (including child protection and occupational health and safety). Programming and planning methods for teaching Music. There will be critical examination of syllabuses in Music from other states and countries.

EDGC872 Music Method B

Annual Wollongong On Campus

Credit Points: 6

Subject Description: This subject will cover the content of the NSW Year 11-12 syllabuses in Music. Included will be the teaching and assessment methods applicable to the NSW Years 11 and 12 syllabuses in Music. There will be critical examination of mandatory policies that affect teachers of Music (including child protection and occupational health and safety). Programming and planning methods for teaching Music to Years 11 and 12. This subject also covers the classroom management practices for teachers of Music. There will be critical examination of Year 11 and 12 syllabuses in Music from other states and countries.

EDGC873 Visual Arts Method A

Annual Wollongong On Campus

Credit Points: 6

Subject Description: This subject will cover the content of the NSW Year 7-10 syllabuses in Visual Arts. Included will be the teaching and assessment methods applicable to the NSW Years 7 to 10 syllabuses in Visual Arts. There will be critical examination of mandatory policies that affect teachers of Visual Arts (including child protection and occupational health and safety). Programming and planning methods for teaching Visual Arts. This subject also covers the classroom management practices for teachers of Visual Arts. There will be critical examination of syllabuses in Art from other states and countries.

EDGC874 Visual Arts Method B

Annual Wollongong On Campus

Credit Points: 6

Subject Description: This subject will cover the content of the NSW Year 11-12 syllabuses in Visual Arts. Included will be the teaching and assessment methods applicable to the

NSW Years 11 and 12 syllabuses in Visual Arts. There will be critical examination of mandatory policies that affect teachers of Visual Arts (including child protection and occupational health and safety). Programming and planning methods for teaching Art to Years 11 and 12. This subject also covers the classroom management practices for teachers of Visual Arts. There will be critical examination of Year 11 and 12 syllabuses in Visual Arts from other states and countries.

EDGC875 Drama Method

Annual Wollongong On Campus

Credit Points: 6

Subject Description: This subject will cover the content of the NSW Year 7-12 syllabuses in Drama. Included will be the teaching and assessment methods applicable to the NSW syllabuses in Drama. There will be critical examination of mandatory policies that affect teachers of Drama (including child protection and occupational health and safety). Programming and planning methods for teaching Drama. This subject also covers the classroom management practices for teachers of Drama. There will be critical examination of syllabuses in Drama from other states and countries.

EDGC876 French Method

Annual Wollongong On Campus

Credit Points: 6

Subject Description: This subject will cover the content of the NSW Year 7-12 syllabuses in French. Included will be the teaching and assessment methods applicable to the NSW syllabuses in French. There will be critical examination of mandatory policies that affect teachers of French (including child protection and occupational health and safety). Programming and planning methods for teaching French. This subject also covers the classroom management practices for teachers of French. There will be critical examination of syllabuses in French from other states and countries.

EDGC877 Italian Method

Annual Wollongong On Campus

Credit Points: 6

Subject Description: This subject will cover the content of the NSW Year 7-12 syllabuses in Italian. Included will be the teaching and assessment methods applicable to the NSW syllabuses in Italian. There will be critical examination of mandatory policies that affect teachers of Italian (including child protection and occupational health and safety). Programming and planning methods for teaching Italian. There will be critical examination of syllabuses in Italian from other states and countries.

EDGC878 Japanese Method

Annual Wollongong On Campus

Credit Points: 6

Subject Description: This subject will cover the content of the NSW Year 7-12 syllabuses in Japanese. Included will be the teaching and assessment methods applicable to the NSW syllabuses in Japanese. There will be critical examination of mandatory policies that affect teachers of Japanese (including child protection and occupational health and safety). Programming and planning methods for teaching Japanese. This subject also covers the classroom management practices

for teachers of Japanese. There will be critical examination of syllabuses in Japanese from other states and countries.

EDGC881 Computer Studies Method A

Annual Wollongong On Campus

Credit Points: 6

Subject Description: This subject will cover the content of the NSW Year 7-10 syllabuses in Computer Studies. Included will be the teaching and assessment methods applicable to the NSW School Certificate in Computer Studies. There will be critical examination of mandatory policies that affect teachers of Computer Studies (including child protection and occupational health and safety). Programming and planning methods for teaching Computer Studies for Years 7-10. This subject also covers the classroom management practices for teachers of Computer Studies for Years 7-10. There will be critical examination of syllabuses for Years 7-10 Computer Studies from other states and countries.

EDGC882 Computer Studies Method B

Annual Wollongong On Campus

Credit Points: 6

Subject Description: This subject will cover the content of the NSW Year 11-12 syllabuses in Computer Studies. Included will be the teaching and assessment methods applicable to the NSW Higher School Certificate in Computer Studies. There will be critical examination of mandatory policies that affect teachers of senior high school Computer Studies (including child protection and occupational health and safety). Programming and planning methods for teaching senior high school Computer Studies. This subject also covers the classroom management practices for teachers of senior high school Computer Studies. There will be critical examination of syllabuses in senior high school Computer Studies from other states and countries.

EDGC883 Computer Studies Method

Annual Wollongong On Campus

Credit Points: 6

Subject Description: The content of the NSW Year 7 - 12 syllabuses in Computer Studies. Teaching & assessment methods applicable to the NSW School Certificate and Higher School Certificate in Computer Studies. Critical examination of mandatory policies that affect teachers of Computer Studies. Programming and planning methods for teaching Computer Studies for Years 7 - 12. Critical examination of syllabuses for years 7 - 12 Computer Studies from other states and countries.

EDGC909 Teaching Internship

Credit Points: 8

Not on offer in 2005

Subject Description: Students will design, implement and evaluate one or more integrated sequences of quality learning experiences extending over a period of about 10 weeks which display diversity of teaching strategies and techniques and encompass a wide range of learning styles. There will be a major emphasis on an ongoing reflective evaluation involving the student, peers, professional mentor and University staff culminating in a comprehensive critical analysis of the activities of the subject.

EDGC911 Advanced Perspectives

Credit Points: 8

Not on offer in 2005

Subject Description: Students will work in small groups on aspects of Curriculum, Philosophy, Psychology and Sociology relevant to classrooms. Students will identify an investigation to be followed up on an individual basis through the literature and investigated in a professional context. The work will draw on skills from EDGZ900 Intro. to Research Methods, and make use of professional and institutional contacts developed in EDGC909 Internship. The report will be presented for critical analysis to the group and institutional stakeholders before being submitted for assessment.

EDGC912 Advanced Studies in the Key Learning Areas

Credit Points: 8

Not on offer in 2005

Subject Description: Autumn/Spring 8 cp. This subject will require students to identify and examine the factors which are driving current curriculum changes. An analysis of these change processes will be undertaken within the context of contemporary curriculum theory and through a critical review of the current literature. Students will negotiate, plan, conduct and report an investigation of an educational issue in a KLA.

EDGH911 Instructional Design

Credit Points: 6

Not on offer in 2005

Subject Description: This subject is presented through a combination of the WWW and four class meetings, each of 3 hours duration. Syndicate groups formed early in the process will meet independently as required to complete the design tasks, and chat spaces and E-mail will be used for progress reports and the sharing of design strategies and ideas. This subject is designed to provide the student with information, modelling and practice in applying Instructional Design (ID) principles to the design of a simple training program. Given a specific scenario, students are expected to prepare a design statement, complete a needs assessment, write a problem statement, perform task and instructional analyses, develop a curriculum map, and outline planning decisions related to assessment, instructional strategies, media selection, and program evaluation.

EDGH912 Project for Instructional Design

Credit Points: 2

Not on offer in 2005

Subject Description: There is no attendance requirement for this project, but students may arrange consultation times to suit their own requirements. Class or group meetings may be negotiated and the original WWW program (EDGH911) is available for reference as required by the individual. This subject involves an application of the understandings and skills developed through the study of EDGH911. It allows students to replicate the design process and generate a design statement relevant to a problem from their own workplace or some other appropriate environment

EDGH921 Evaluation and Assessment for Adult Learning

Credit Points: 6

Not on offer in 2005

Pre-requisites: EDGH911

Subject Description: Pattern of Study: This subject is presented through a combination of the WWW and class meetings. Chat spaces, DISCUS and E-mail will be used for progress reports and the sharing of decisions, strategies and ideas. This subject is designed for students to develop the essential knowledge, skills, understandings and attitudes which will ensure a sound approach to the assessment of learner performance in training and other educational situations. Students will be required to develop instruments for the assessment of trainee/student learning and the evaluation of instructional interventions. They will be required to justify their approach within the framework of an appropriate evaluation methodology.

EDGH922 Project for Evaluation and Assessment for Adult Learning

Credit Points: 2

Not on offer in 2005

Pre-requisites: EDGH921

Subject Description: Pattern of Study: This subject is presented through independent study and research. However, chat spaces, DISCUS and E-mail will be used for progress reports, the sharing of decisions, strategies and ideas, and the provision of feedback. Through involvement in this project students will understand the nature, role and principles of student assessment and course evaluation. They will exhibit skills in a range of tasks involved in assessment and evaluation, apply these understandings and skills to workplace context, and develop assessment and evaluation strategies based upon a selected evaluation model.

EDGH923 Adult Learning Strategies and Communication

Credit Points: 6

Not on offer in 2005

Pre-requisites: EDGH911

Subject Description: This subject is presented through a series of interactive workshops designed to provide students with experience of a range of instructional strategies for adult learning: on-line instruction, interactive multimedia, case study, gaming and simulation, role play, discussion methods, etc. This subject is designed to develop the capabilities of students to (a) select appropriate training/instructional strategies for stated training objectives and (b) design and produce high quality support materials for effective learning in a range of educational contexts. The subject builds upon prior studies in psychology and instructional design and contributes to student insight into the implementation stage of the design process. It comprises practical workshops in the development of instructional plans and strategies for learning. It considers the development of a climate conducive to learning and the design of appropriate learning sequences

EDGH924 Project for Adult Learning Strategies and Communication

Autumn

Wollongong

On Campus

Credit Points: 2

Subject Description: Contact hours: Equivalent of 3hrs per week. Through involvement in this project students will be able to implement planned activities for student learning and reflect on both personal performance and student learning. The subject builds upon prior studies in psychology, instructional design and communication, and contributes

EDGH931 Psychology of Adult Learning

Credit Points: 6

Not on offer in 2005

Subject Description: As professionals engaged in the education and training of adults, students will be expected to develop an understanding of the dynamics, theories, principles and styles commonly identified in adult learning environments. They will consider the context of adult learning, the learner and the learning process. They will be expected to generate a theoretical base for adult learning and to link theory and practice.

EDGH932 Project for Psychology of Adult Learning

Credit Points: 2

Not on offer in 2005

Co-requisites: EDGH931

Subject Description: As a result of their involvement in this project students will be able to relate theoretical perspectives to the characteristics of adult learners through critical analysis and synthesis of literature related to a particular aspect of adult learning.

EDGH933 Management and Organisational Context of Learning

Spring	Wollongong	On Campus
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Credit Points: 6

Subject Description: This subject focuses on the organisational and management aspects of adult education and training. The contextual focus includes the political context in which the adult educator or trainer must operate. It explores particular management/organisational issues related to the development of professional competency in the workplace.

EDGH934 Project for Management and Organisational Context of Learning

Spring	Wollongong	On Campus
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Credit Points: 2

Subject Description: This subject builds on the professional and theoretical perspectives gained from EDGH933 Management and Organisational Context of Learning. It provides the opportunity for students to explore more deeply a particular management/organisational issue related to the development of professional competency in preparing proposals for enhancing learning in the workplace. The project may take the form of a case study, or a proposal which must include an extensive rationale.

EDGH935 Issues in Adult in Education

Spring	Wollongong	On Campus
Autumn	Wollongong	On Campus

Credit Points: 6

Pre-requisites: At least 16cp of subjects from Adult Ed. specialisation

Subject Description: This subject requires students to examine current issues facing professionals in the field: international issues such as problem-based learning, access to technology, distance education of adults, implementation of government policies, working with third age learners, equity, renewal of the workforce, and workplace literacy. Students will consider psychological bases for adult learning and teaching, learning contexts and the management of adult teaching and learning.

EDGH936 Project for Issues in Adult Education

Spring	Wollongong	On Campus
Autumn	Wollongong	On Campus

Credit Points: 2

Subject Description: Successful completion of this subject entails the evaluation of a significant issue in adult learning and teaching, with specific reference to workplace or other contextual applications.

EDGH940 Adult Career Development

Credit Points: 6

Not on offer in 2005

Exclusions: EDGA990 or EDGA998

Subject Description: This subject introduces the area of adult career development and how the professional supports the process. It introduces the core theories of career development and reviews the selection of a range of career development resources that might be used to help clients. This core subject also examines the personal goals of the career development worker so that the areas for development are related to their own career progression.

EDGH942 Adult Career Development and the Organisation

EDU Intake May	Wollongong	Distance
EDU Intake July	Wollongong	Distance
EDU Intake Sep	Wollongong	Distance
EDU Intake Nov	Wollongong	Distance

Credit Points: 6

Pre-requisites: EDGH940

Exclusions: EDGA990 or EDGA998

Subject Description: This subject will review the elements of career development within the organisation, it will examine appropriate systems, strategies and how they can be linked to organisational goals. Examples discussed are mentoring systems, workshops, outplacement, redeployment and career coaching. The final module in the subject will examine the role new technologies can play within the process of developing careers. New methods will include the informal, such as email and more formal methods, such as organisational databases for shared learning and tracking progress.

EDGH944 Adult Career Development with Clients

EDU Intake May	Wollongong	Distance
EDU Intake July	Wollongong	Distance
EDU Intake Sep	Wollongong	Distance
EDU Intake Nov	Wollongong	Distance

Credit Points: 6

Pre-requisites: EDGH940

Exclusions: EDGA990 or EDGA998

Subject Description: This subject will focus upon the understanding and skills required of a person providing career development support services. It will identify the differences between this role and other counselling roles and will examine styles of helping and identify methods of conflict resolution. The subject will develop specific career support skills including, problem exploration and clarification, client agreements, dynamics of the helping relationship and client occupational decision-making. The effective career outcomes will be examined by reference to roadblocks, constraints, mapping and implementing options, action planning, resources and the problems of transition.

EDGH946 Practicum or Project in Adult Career Development

Autumn	Wollongong	Distance
EDU Intake May	Wollongong	Distance
EDU Intake July	Wollongong	Distance
EDU Intake Sep	Wollongong	Distance
EDU Intake Nov	Wollongong	Distance

Credit Points: 6

Pre-requisites: EDGH940 and one of EDGH942 or EDGH944

Exclusions: EDGA836

Subject Description: This subject provides an opportunity to demonstrate the ability to integrate the essential knowledge, skills, understandings, attitudes and values developed throughout the course. Through the project, students will demonstrate that they have the basic professional competencies to which the preceding subjects have been directed. Students will have the opportunity to synthesise their learnings in the areas of designing adult career development options, implementing and evaluating their effectiveness.

EDGH951 The Global Challenge in Adult Education/VET/Higher Education@21C

Autumn	Wollongong	Flexible
Spring	Wollongong	Flexible

Credit Points: 8

Subject Description: This subject provides an introduction to the contemporary adult education environment in Australia, as well as addressing challenges that will confront adult educators and administrators. Students will be introduced to key elements of adult and vocational education, including an exploration of the relationships between work, technology, training and employment, and new technologies and settings for learning. The subject will explore aspects of the National Training Reform Agenda. These developments are explored in the context of the work of administrators, trainers and teachers in their workplace settings. Four out of the five assessment modules must be completed successfully.

EDGH952 Learning about Learning in Adult Education/VET/Higher Education@21C

Spring	Wollongong	Flexible
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Credit Points: 8

Subject Description: This introductory subject provides a policy context in which teaching and learning in VET, adult

and higher education has been developed, exploring some theoretical positions that have informed vocational education, including problem-based learning, reflective practice and the development of practitioner-based learning. The eight modules seek to model aspects of good learning theory through applied assessment tasks that enable students to trial learning experiences in their workplace. Students have the option to develop learning experiences and assessment and evaluation with a view to improving their own practice.

EDGH953 Design and Use of New Technologies in Ad Educ/VET/Higher Educ@21C

Spring	Wollongong	Flexible
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Credit Points: 8

Subject Description: This subject provides both theoretical and practical dimensions of utilising new digital technologies of learning in adult, VET and higher education. The subject will address the nature and character of computer-based information and communications technology. The subject explores theory associated with learning mediated by technology and explores the application of web-based learning, the Internet, multimedia and learning objects to develop online learning environments.

EDGH954 Leading and Managing in Ad Educ/VET/Higher Educ@21C

Spring	Wollongong	Flexible
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Credit Points: 8

Subject Description: This subject explores the importance of leadership that is collaborative, planned and outcome oriented. The possibilities for developing collaborative partnership-based forms of management that enhance outcomes for the community and industry are stressed. Students will be encouraged to critically review their understanding and experience of management and leadership and review their practice with a view to developing productive partnerships within their working units and communities. Students will also be introduced to the principles of outcomes-based planning and the notion of multiple and diverse accountabilities such as the triple bottom line. This subject also stresses the need to develop leadership and management strategies that have the capacity to develop global alliances that incorporate international settings.

EDGH955 Professional Development in Ad Educ/VET/Higher Educ@21C

Spring	Wollongong	Flexible
Autumn	Wollongong	Flexible

Credit Points: 8

Subject Description: This subject enables students to develop a negotiated professional development project in areas associated with Adult Education, VET and Higher Education. The subject explores the concept of professional development in the workplace and explores opportunities for students to develop portfolios directed at emerging issues in Adult Education, VET and Higher Education. The subject has a particular emphasis on developments in research in the Higher Education sector. The subject has four assessment modules.

EDGH956 Innovation for Practitioners in Adult Education/VET/Higher Education@21C

Autumn	Wollongong	Flexible
Spring	Wollongong	Flexible

Credit Points: 8

Subject Description: This subject is designed to provide students with an opportunity to develop and trial an innovative response to issues in their workplace. The subject emphasises an approach to developing a learning experience or innovation in their workplace such as a curriculum unit that involves action learning. The subject material promotes and features a collaborative and cyclic approach to design, implementation and evaluation that enables participation and feedback by members of workplaces. The subject offers opportunities for students to develop innovations in their workplace and to develop materials or events that promote effective learning. This subject has four assessment modules.

EDGH957 Multiliteracies and Numeracies in Adult Education/VET/Higher Education@21C

Spring	Wollongong	Flexible
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Credit Points: 8

Subject Description: This subject explores issues relating to the dynamic notion of literacy and numeracy in the context of globalisation and information and computer technology. The concept of multiliteracies is a feature of the subject and contributes to developing an analysis of literacy and numeracy as multimodal and multidimensional social practices involving a broad dimension of communication in the workplace, community and other diverse settings. The subject explores the development of literacy and numeracy contextualised by work-based settings in the Adult Education, VET and the Higher Education sectors. The subject has four modules.

EDGI911 Information Technology in Education and Training

Autumn	Wollongong	Flexible
Autumn	Hong Kong University	On Campus
Autumn	Wollongong	On Campus

Credit Points: 6

Subject Description: This subject provides a basic introduction to information technology in education and training. As such, it is an overview of the range of issues and topics that will be further elaborated upon in subsequent subjects. The subject explores the concept of information technology and the ways in which the educational enterprise is affected by it. Topics include: The Technology: Hardware, software, media; Learning Theory; Formal Learning Environments; Instructional Design Process; Teaching and Learning Strategies; and Informal Learning Environments.

EDGI912 Project for EDGI911

Autumn	Hong Kong University	On Campus
Autumn	Wollongong	Flexible
Autumn	Wollongong	On Campus

Credit Points: 2

Subject Description: This is an optional project component to be taken in conjunction with EDGI 911. The 2 cp Project

extends the opportunity to study the issues of EDGL911 Instructional Design.

EDGI913 Instructional Strategies and Authoring

Autumn	Wollongong	Flexible
Autumn	Hong Kong University	On Campus

Credit Points: 6

Subject Description: This subject examines instructional strategies employed in a range of technology-supported learning environments, focusing particularly on CD-based multimedia applications. Learners develop their understanding of a variety of strategies through the design and development of small multimedia prototypes, using written documentation and authoring tools to explore and present their ideas.

EDGI914 Project for EDGI913

Autumn	Hong Kong University	On Campus
Autumn	Wollongong	Flexible

Credit Points: 2

Subject Description: This is an optional project component to be taken in conjunction with EDGI 913. The 2 cp Project extends the opportunity to study the issues of EDGI913 Instructional Strategies and Authoring.

EDGI915 Network-Based Learning

Spring	Hong Kong University	On Campus
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Credit Points: 6

Subject Description: This subject examines the design and research that surrounds the development of flexible learning systems and the application of computer mediated communications using the Web and other networked environments. Topics include: The design of information structures for use with hypertext; The design and development of graphical and textual interfaces; and The communication models which can be implemented for Web-based learning.

EDGI917 Instructional Design

Spring	Wollongong	Flexible
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Credit Points: 6

Subject Description: This subject is presented through a combination of the www and four class meetings, each of 3 hours duration. Syndicate groups formed early in the process will meet independently as required to complete the design tasks, and chat spaces and E-mail will be used for progress reports and the sharing of design strategies and ideas. This subject is designed to provide the student with information, modelling and practice in applying Instructional Design (ID) principles to the design of a simple training program. Given a specific scenario, students are expected to prepare a design statement, complete a needs assessment, write a problem statement, perform task and instructional analyses, develop a curriculum map, and outline planning decisions related to assessment, instructional strategies, media selection, and program evaluation.

EDGI918 Project for Instructional Design**Credit Points:** 2**Spring** **Wollongong** **Flexible**

Subject Description: There is no attendance requirement for this project, but students may arrange consultation times to suit their own requirements. Class or group meetings may be negotiated and the original www program (EDGI917) is available for reference as required by the individual. This subject involves an application of the understandings and skills developed through the study of EDGI917. It allows students to replicate the design process and generate a design statement relevant to a problem from their own workplace or some other appropriate environment

EDGI931 Interactive Multimedia Design**Spring** **Wollongong** **Flexible****Credit Points:** 6**Contact Hours:** Spring**Pre-requisites:** EDGI911 and EDGI913

Subject Description: This subject explores the instructional issues important in the design of media resources for Web and CD-based multimedia educational materials. Students will have an opportunity to design their own multimedia treatments for concepts of their choice, and using the software tools available, develop these into small on-screen presentations.

EDGI932 Project for EDGI931**Spring** **Wollongong** **Flexible****Credit Points:** 2**Co-requisites:** EDGI932

Subject Description: This is an optional project component to be taken in conjunction with EDGI 915. The 2 cp Project extends the opportunity to study the issues of EDGI916 Network-Based Learning

EDGI933 Implementation and Evaluation of Technology-Based Learning**Spring** **Wollongong** **Flexible**
Spring **Hong Kong University** **On Campus****Credit Points:** 6

Subject Description: This subject is designed to investigate the links between educational evaluation and implementation, particularly where learning is being supported by information technologies. It seeks to define the basic issues facing the practitioner when they are trying to manage technology-based learning projects and to answer such questions as: Is the project effective? Is there a problem with the design or the way it is implemented? How might it be changed or modified? Students will use on-line tools and work collaboratively over the Web.

EDGI934 Project for EDGI933**Spring** **Wollongong** **Flexible**
Spring **Hong Kong University** **On Campus****Credit Points:** 2

Subject Description: This is an optional project component to be taken in conjunction with EDGI933. The 2 cp Project extends the opportunity to study the issues of EDGI933 Implementation and Evaluation of Technology-Based Learning

EDGI951 Visual and Interface Design**Autumn** **Wollongong** **Flexible**
Autumn **Hong Kong University** **On Campus****Credit Points:** 6

Subject Description: In the design of interactive learning systems, the development of an effective interface requires not only an understanding of the structure of the knowledge domain but also the most effective way to represent this structure to users and allow it to be manipulated in the pursuit of the desired outcome. This subject discusses the role of effective visualization and screen design and the ways it can facilitate understanding by learners/users of software. Topics focus on how visual design and metaphor support reduction in cognitive load, how effective electronic performance support systems support work through complex tasks, and how usability can be investigated.

EDGI952 Project for EDGI951**Autumn** **Wollongong** **Flexible**
Autumn **Hong Kong University** **On Campus****Credit Points:** 2**EDGI953 Current Issues in Information Technology in Education and Training****Credit Points:** 6**Not on offer in 2005**

Subject Description: This subject involves an investigation of current key and topical research and design issues in information technology in education and training. It incorporates a review of the most recent technical and educational developments in this area, and offers students an opportunity to investigate a specific issue of interest in detail. It is expected that students will critically review the topic and develop a view on its implications for learning.

EDGI954 Project For EDGI954**Credit Points:** 2**Not on offer in 2005**

Subject Description: This is the project for EDGI954

EDGI955 Research In Learning Environments**Credit Points:** 6**Not on offer in 2005****Pre-requisites**

Subject Description: This subject builds on the research work of the Educational Multimedia Laboratory research program. Students will work with a mentor to develop a research proposal that can be presented for Faculty approval as a future Masters (Research) or Doctoral study.

EDGI956 Project For EDGI955 - Research In Learning Environments**Credit Points:** 2**Not on offer in 2005****Pre-requisites:****EDGI957 Digital Learning Systems Design****Credit Points:** 6**Not on offer in 2005****Pre-requisites:** EDGI913 and/or EDGI911

Subject Description: This subject focuses on design, development and management issues associated with creating technology-supported learning environments. The detailed issues of design will be examined through the use of instructional design models based on theoretical views of learning and through the analysis of real-life cases. Teams of students will work together to develop a project that addresses a specific educational or training problem through to an advanced prototype.

EDGI958 Project for EDGI957**Credit Points:** 2**Not on offer in 2005****Co-requisites:** EDGI957

Subject Description: This is an optional project component to be taken in conjunction with EDGI 957. The 2 cp Project extends the opportunity to study the issues of EDGI 957 (Un) Intelligent Computer Mediated Learning Systems.

EDGL901 Foundations of Educational Leadership

Autumn	Wollongong	Flexible
Autumn	Wollongong	On Campus

Credit Points: 6

Subject Description: This core subject provides students with the range of foundational understandings essential for understanding the leadership function in education and training organisations. The content covers the main areas of intellectual understanding which underpin 'futures oriented' effective leadership, by developing conceptual understandings of: policy context and planning; sociological pressures; futurism; economic realities and education; curriculum leadership and planning; and change strategies.

EDGL902 Project in Foundations of Educational Leadership

Autumn	Wollongong	Flexible
Autumn	Wollongong	On Campus

Credit Points: 2

Subject Description: The 2 cp Project extends the opportunity to study the issues of EDGL901 Foundations of Educational Leadership. In general a major project or case study will form the basis of the additional work for the extra 2 cp undertaken.

EDGL903 Introduction to Educational Management

Spring	Wollongong	Flexible
Spring	Wollongong	On Campus

Credit Points: 6

Subject Description: This core subject provides students with the range of foundational understandings essential for understanding the management function in education and training organisations. The content topics are selected to introduce the main areas of intellectual understanding which underpin 'present' oriented effective management by developing conceptual understandings of: adult education and training; staff development; information systems; financial management; personal management skills- as they contribute to the management function of educational organisations.

EDGL904 Project For EDGL903

Spring	Wollongong	Flexible
Spring	Wollongong	On Campus

Credit Points: 2**Pre-requisites:** EDGL903

Subject Description: The 2 cp Project extends the opportunity to study the issues of EDGL903 Introduction to Educational Management. In general a major project or case study will form the basis of the additional work for the extra 2 cp undertaken.

EDGL905 International Trends In Educational Leadership**Credit Points:** 6**Not on offer in 2005****Pre-requisites:** EDGL901 or EDGL903

Subject Description: Contact hours: 3 hr/ week or equivalent. This core subject provides a futures oriented context and understanding to the development and implementation of education and training policies in a rapid change, globalising economy. Selected content areas include: internationalisation of economies and social systems; policy and planning implications of weakened nation states, and the emergence of global social, economic, and legal systems; international perspectives on education and training; approaches to policy and planning in comparative social systems; the limitations of central policy and planning systems in rapid change customer focussed contexts; emerging methodologies for effective policy and planning in education and training systems and organisations.

EDGL906 Project For EDGL905**Credit Points:** 2**Not on offer in 2005**

Subject Description: The 2 cp Project extends the opportunity to study the issues of EDGL905. In general a major project or case study will form the basis of the additional work for the extra 2 cp undertaken.

EDGL907 Leadership For Organisational Effectiveness.

Spring	Wollongong	Flexible
Spring	Wollongong	On Campus

Credit Points: 6**Pre-requisites:** Permission of subject co-ordinator

Subject Description: This course will examine the concept of organisational effectiveness and its relationship to the leadership function in a professional service organisation.

Participants will critique selected internal and externally driven frameworks to diagnose organisational effectiveness and their appropriateness to their own workplace. They will also examine different approaches to building organisational effectiveness and consider their relevance to their own workplace, together with leadership implications of building a quality organisation.

EDGL908 Project For EDGL907

Spring	Wollongong	Flexible
Spring	Wollongong	On Campus

Credit Points: 2

EDGL909 Leadership of Effective Change

Autumn	Wollongong	Flexible
Autumn	Wollongong	On Campus

Credit Points: 6

Pre-requisites: 18 credit points of EDGL subjects or equivalent

Subject Description: The topics, case studies, and projects of this subject are selected to develop effective leadership strategies for implementing effective change in education and training organisations. They include: characteristics of effective change; environmental scans; the critical role and importance of staff in implementing effective change; working through HR strategies to achieve effective change strategies for planning, implementing and monitoring effective change in professional service organisations, with a particular focus on project management techniques for effective change.

EDGL910 Project in Leadership of Effective Change

Autumn	Wollongong	Flexible
Autumn	Wollongong	On Campus

Credit Points: 2

Subject Description: The 2 cp Project extends the opportunity to study the issues of EDGL909 Leadership of Effective Change. In general a major project or case study will form the basis of the additional work for the extra 2 cp undertaken.

EDGL911 Leadership of Curriculum and Instruction

Autumn	Wollongong	Flexible
Autumn	Wollongong	On Campus

Credit Points: 6

Pre-requisites: EDGL901 or EDGL903

Subject Description: This core subject deals with the special leadership and management tasks of the education and training organisation. The particular features of professional service organisations dealing with education and training processes and outcomes will be highlighted. The leadership/management roles and tasks which both oversight and complement the professional roles of the curriculum and instructional specialist(s) will be particularly emphasised. The subject will take a practical, case study approach to the range of issues and concerns generated by the special leadership requirements of the educational organisation.

EDGL912 Project in Leadership of Curriculum and Instruction

Autumn	Wollongong	Flexible
Autumn	Wollongong	On Campus

Credit Points: 2

Subject Description: The 2 cp Project extends the opportunity to study the issues of EDGL911 Leadership of Curriculum and Instruction. In general a major project or case study will form the basis of the additional work for the extra 2 cp undertaken.

EDGL913 Program Evaluation

Credit Points: 6

Not on offer in 2005

Subject Description: A range of evaluation approaches, their assumptions and major methodologies which may be applicable in formal educational, non-formal and business and industry environments are discussed and critiqued. Students have the opportunity to participate in evaluation simulations and undertake and share their own evaluation as part of the subject. Issues addressed include: ethical priorities; program planning and budgeting; QA, accreditation; skill transfer and site based action research.

EDGL914 Project in Program Evaluation

Credit Points: 2

Not on offer in 2005

Pre-requisites: EDGL913

Subject Description: The 2 cp Project extends the opportunity to study the issues of EDGL913 Program Evaluation. In general a major project or case study will form the basis of the additional work for the extra 2 cp undertaken.

EDGL915 Information Systems for Educational Leadership

Autumn	Wollongong	On Campus
Autumn	Wollongong	Flexible

Credit Points: 6

Pre-requisites: EDGL901 or EDGL903

Subject Description: This core subject deals with the developing understandings and skills required of educational leaders in the transformational influence(s) of information systems and information technology on the education and training function. Topics will include: information systems and their impact on educational management; development of information analysis techniques; writing specifications for systems; linking information systems with management processes and organisational structures; issues for educational management; course delivery; logistics; records management; databases; and curriculum organisation.

EDGL916 Project in Information Systems for Educational Leadership

Autumn	Wollongong	On Campus
Autumn	Wollongong	Flexible

Credit Points: 2

Subject Description: cp Project extends the opportunity to study the issues of EDGL915 Information Systems and Educational Leadership. In general a major project or case study will form the basis of the additional work for the extra 2 cp undertaken.

EDGL917 Quality Learning and Teaching

Spring Wollongong On Campus

Spring Wollongong Flexible

Credit Points: 6

Subject Description: Students will examine the impact on learning communities of changing instructional and learning needs in relation to concepts of quality, effectiveness, improvement and accountability. Critical influences of learning contexts on learning outcomes will be considered. Students will explore recent developments in learning and teaching theory in terms of the enhancement of reflective and self-directed learning, the encouragement of student voice, mentoring, and interactive multimedia teaching and learning strategies.

EDGL918 Project in Quality Learning and Teaching

Spring Wollongong On Campus

Spring Wollongong Flexible

Credit Points: 2

Subject Description: The 2 cp Project extends the opportunity to study the issues of EDGL917 Quality Learning and Teaching. In general a major project or case study will form the basis of the additional work for the extra 2 cp undertaken.

EDGL919 Mentoring Beginning Teachers

Autumn Wollongong Flexible

Autumn Wollongong On Campus

Credit Points: 6

Subject Description: Theoretical framework: analysis and critique of relevant literature. Professional needs of beginning teachers. Context in terms of relevant policy documents. Mentoring as a model of promoting teachers development. Assessing teacher performance. Designing, implementing and evaluating a mentoring program.

EDGL920 Developing and Managing People

Spring Wollongong On Campus

Spring Wollongong Flexible

Credit Points: 6

Subject Description: People constitute a major source of organisational advantage and success. This course deals with the leadership challenges of managing, motivating and energising people in human service organisations such as education. Drawing upon research and effectual/ineffectual exemplars, participants will consider people management strategies from a variety of perspectives: recruitment and induction, supervision and performance management, team building, conflict resolution, and professional development.

EDGL921 Project for EDGL920

Spring Wollongong Flexible

Credit Points: 2

EDGP910 Introduction to Outdoor Education

Credit Points: 6

Not on offer in 2005

Subject Description: Increasing pressure in urban and contemporary living has placed greater awareness on environmental and outdoor opportunities for educational, community and corporate groups. A variety of learning experiences will be presented which enable students to gain an insight into how Outdoor Education is used as a catalyst for social and personal development and/or environmental sensitivity. Topics include: the philosophy of the Outward Education; innovations in National Curriculum for Outdoor Education; an exposure to various school programs incorporating Outdoor Education; and an examination of technical skills required in this field. Practical fieldwork experiences on a regular basis also form part of this course.

EDGP911 Project for EDGP910

Credit Points: 2

Not on offer in 2005

Pre-requisites: BMS101 and permission of subject co-ordinator

EDGP912 Facilitation Techniques in Outdoor Education

Autumn Wollongong On Campus

Credit Points: 6

Subject Description: Contact hrs: 35hrs This subject is a complementary blend of theory and practice to highlight the various leadership, and management styles evident in outdoor education. Facilitation and processing techniques incorporated into outdoor education programs in a variety of pedagogical contexts will be examined. Specific content will explore various philosophies and methodologies used in adventure-based outdoor education programs and enable students to delineate common elements of individual facilitation techniques. Practical fieldwork will be used as a vehicle to integrate theory and practice. A variety of learning experiences will be presented which will enable students to gain an insight into how Outdoor Education is used as a catalyst for social and personal development.

EDGP913 Project for EDGP912

Autumn Wollongong On Campus

Credit Points: 2

Co-requisites: EDGP912

Subject Description: This is an optional project component subject taken in conjunction with EDGP912 and not available separately. The 2 cp Project extends the opportunity to study the issues of EDGP912.

EDGP930 Theoretical and Practical Bases of Coach Education

Spring	Wollongong	Flexible
Autumn	Wollongong	Flexible

Credit Points: 6

Subject Description: Contact hrs: 3hrs per week. This subject analyses current coaching theory related to pedagogical issues, time management and overseas developments in coaching. Students undertake an indepth analysis of the discipline areas applied to coaching. A conceptual framework of coaching both in Australia and overseas will be used with practical implications related to practice sessions in a variety of sport environments.

EDGP931 Project for EDGP930

Spring	Wollongong	Flexible
Autumn	Wollongong	Flexible

Credit Points: 2**Co-requisites:** EDGP930

Subject Description: This is an optional project component subject taken in conjunction with EDGP930 and not available separately. The 2 cp Project extends the opportunity to study the issues of EDGP930.

EDGP932 Issues In Coach Education and Sport Management**Credit Points:** 6**Not on offer in 2005**

Subject Description: This subject is designed to provide students with an examination of current issues. Attention will be given to current international issues such as administrative structures, advanced coaching models, theoretical and practical bases of talent identification, government policy, and research in coach education and sport administration. They will undertake a review of literature in one chosen area presenting the outcomes of the research in a seminar.

EDGP933 Project For EDGP932 - Issues In Coach Education and Sport Management**Credit Points:** 2**Not on offer in 2005****EDGP934 Culture Politics of Sport, Leisure and Physical Education**

Autumn	Wollongong	On Campus
Autumn	Wollongong	Flexible

Credit Points: 6

Subject Description: This subject will examine contemporary debates and issues in the areas of sport, leisure and physical education from a critical perspective. It will examine how the knowledge, values and practices associated with these areas are constituted in the context of specific social, economic, political and cultural relations and how the practices associated with these areas in turn shape social knowledge and values.

The subject will draw on a range of methodologies and resources including media and document analysis, the interrogation of statistical reports and contemporary mythologies about sport and physical activity; current feminist and masculinity research on sport, leisure and physical education; contemporary theories of leisure as consumption; youth studies and leisure and physical activity.

EDGP935 Leadership and Management in Physical Education, Sport and Recreation

Spring	Wollongong	Distance
Spring	Wollongong	Flexible

Credit Points: 6

Subject Description: This subject is designed to provide students with an examination of current issues in the management of physical education, sport and recreation programs. Attention will be given to current international issues such as administrative structures and leadership, communication and motivation, personnel management, public relations, financial management, sport and the law, evaluation, government policy, and research in sport administration.

EDGP990 Practicum in a Learning Environment

Autumn	Wollongong	Flexible
Spring	Wollongong	Flexible

Credit Points: 6**Pre-requisites:** At least 12cp of EDGP subjects

Subject Description: Students will design, implement and evaluate a program of work in a practical environment. This will extend over 30 hours of contact during the session at a worksite of choice. Reflective evaluation will take place on all of the practicum resulting in a critical analysis. All students will meet on a regular basis to discuss issues related to the practicum.

EDGP991 Project for EDGP990

Autumn	Wollongong	On Campus
Spring	Wollongong	Flexible

Credit Points: 2

Subject Description: This is an optional project component subject taken in conjunction with EDGP932 and not available separately. The 2 cp Project extends the opportunity to study the issues of EDGP932.

EDGR911 Teaching Reading

Hamline Intake-

September	Hamline Uni Minnesota	On Campus
Autumn	Wollongong	Flexible
Spring	Wollongong	Flexible
Autumn	Wollongong	Distance
Spring	Wollongong	Distance
Spring	Hamline Uni Minnesota	On Campus

Credit Points: 8

Subject Description: This subject will examine the nexus between reading theories and practices.

Topics to be studied will include: reading and its relationship to language and learning; models of reading instruction and practices; history of reading policies and methods; learning to read and learning through reading; sociocultural relationships between the reader and the written texts; reading for different purposes; evaluation of reading; the reading-writing connections and current debates around reading instruction.

EDGR912 Teaching Writing

Hamline Intake

September	Hamline Uni Minnesota	On Campus
Autumn	Wollongong	Distance
Spring	Wollongong	Distance
Spring	Wollongong	Flexible
Autumn	Wollongong	Flexible
Spring	Hamline Uni Minnesota	On Campus

Credit Points: 8

Subject Description: This subject will examine the nexus between writing theories and practices. Topics to be studied will include: the writing process and its relationship to language and learning; models of writing instruction; learning to write and learning through writing; the role of context, purpose and audience in shaping written genres; the writing/reading connection - specifically spelling, grammar and the role of editing and proofreading, and the evaluation of written texts.

EDGS910 Learning Theories and Exceptionality

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus

Credit Points: 6

Subject Description: This subject explores a range of learning theories and their application to children with special needs. Topics include: behaviourism; Piaget and critiques of his theory; socio-cultural accounts of learning; information processing perspectives including the development of metacognition and self-regulation; the relationships among language, learning and thought; and issues in the assessment of intelligence.

EDGS911 Project in Exceptional Education Practices

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus

Credit Points: 2

Subject Description: Pre/Co-Requisite(s): EDGS910 Learning Theories & Exceptionality This subject builds on the theoretical perspectives gained from the subject, Learning Theories and Exceptionality. It provides the opportunity for students to explore more deeply a particular learning theory and its application to children with special needs. Students will select one theoretical perspective and then complete a project related to the practical application of that theory. The project may take the form of a case study, a curriculum plan or an evaluation study. Projects will be determined in consultation with the lecturer.

EDGS912 Contemporary Perspectives Education of Students with Diverse Needs

Spring	Wollongong	On Campus
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Credit Points: 6

Subject Description: This subject will critically examine current philosophical and policy issues related to the education of students with special needs, including gifted children. The link between theoretical frameworks and practical applications will be explored with a particular focus on the impact of current theories on change processes in special education.

EDGS913 Project in Contemporary Perspectives

Spring	Wollongong	On Campus
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Credit Points: 2

Subject Description: This subject builds on the theoretical perspectives gained from the subject, Contemporary Perspectives in the Education of Students with Diverse Needs. It provides the opportunity for students to explore more deeply a particular issue related to policy or programming for students with special needs. Students completing the project will select a topic in consultation with the lecturer. The project may take the form of a case study, a curriculum plan or an evaluation study.

EDGS914 Assessment and Instruction of Individuals with Moderate/Severe Needs

Spring	Wollongong	On Campus
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Credit Points: 6

Subject Description: This subject aims to develop basic skills in assessment, program planning, program implementation and evaluation in relation to students with special educational needs. The principles of effective teaching and curriculum modification will be addressed. While a range of teaching approaches will be reviewed, the emphasis will be on those which have strong empirical support for their effectiveness.

EDGS915 Programs for Students with Learning Difficulties

Spring	Wollongong	On Campus
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Credit Points: 2

Subject Description: This subject will provide students with the opportunity to investigate the educational needs of one particular group of students, and to evaluate the efficacy of current responses to their educational needs. Students will draw upon understandings and skills developed in EDGS914 which is a pre- or co-requisite for this subject.

EDGS916 Models of Behaviour Management

Autumn	Wollongong	On Campus
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Credit Points: 6

Subject Description: This subject examines a range of approaches to behaviour management and the theoretical principles upon which they are based. Problems associated with non school attendance, oppositional disorders, attention deficit disorders and other commonly occurring behaviour disorders are critically examined within the context of increasing academic engaged time and developing social and conflict resolution skills.

EDGS917 Programming for Behaviour Management

Spring	Wollongong	Flexible
Autumn	Wollongong	On Campus

Credit Points: 2

Subject Description: This subject will build on the conceptual understandings and skills developed in EDGS916 and involve the development of a schoolwide behaviour management plan for a nominated educational setting. It will incorporate an analysis of the function of schools, the causes of inappropriate behaviour and the role of the teacher in guiding student behaviour.

EDGS918 Approaches to Reading Difficulties: Theories and Strategies**Credit Points:** 6*Not on offer in 2005*

Subject Description: This subject will engage students in a critical review of current empirical research in the area of reading difficulties. Theoretical and methodological aspects will be considered.

EDGS919 Reading Difficulties: Program Design and Implementation**Credit Points:** 2*Not on offer in 2005***Co-requisites:** EDGS918

Subject Description: This subject will engage students in the practical implementation of current theories regarding the identification and remediation of reading difficulties. Students will be required to work with a student with reading difficulties for a period of 6-8 weeks. This will involve pre- and post-assessment tasks and designing and implementing an appropriate instructional program.

EDGS920 Language and Communication Difficulties: Theory and Practice

Spring	Wollongong	On Campus
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Credit Points: 6

Subject Description: This subject examines the major causes of language and communication difficulties. An overview of the topic will include an historical perspective which indicates shifts in issues such as identification, classification and categorisation. Specific language difficulties associated with autism, cerebral palsy hearing impairment, intellectual impairment and learning disabilities will be examined. Assessment of communication difficulties and evaluation of a range of educational strategies will conclude the subject.

EDGS921 Language-Related Learning Difficulties: A Case Study

Spring	Wollongong	On Campus
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Credit Points: 2

Subject Description: This subject examines the impact of language-related learning difficulties on academic performance. Students will analyse the needs of a child with such difficulties and make recommendations for compensatory teaching practices to enhance classroom success.

EDGS922 Teaching Gifted Students

Autumn	Wollongong	On Campus
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Credit Points: 6

Subject Description: This subject will identify and critically examine the current issues related to the education of gifted students. It will also prepare teachers to meet effectively the needs of such students through curriculum modification and application of special educational strategies. Topics will include: definition and identification issues; instructional models; educational strategies; creativity and thinking skills; counselling needs; special populations; and the implications of policy on educational practice.

EDGS923 Project in Gifted Education

Autumn	Wollongong	On Campus
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Credit Points: 2

Subject Description: This subject builds on the theoretical perspectives gained from the subject, Teaching Gifted Students. It provides the opportunity for students to explore more deeply a particular issue related to policy or programming for gifted students. Students completing the project will select a topic in consultation with the lecturer. The project may take the form of a case study, a curriculum plan or an evaluation study.

EDGS924 Giftedness in Special Populations

Spring	Wollongong	On Campus
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Credit Points: 6**Contact Hours:**

Subject Description: Contact hours: 3 hrs/week x 9 This subject will critically examine the needs of special populations of students who are generally under-represented in programs for gifted children. Students will engage in analysing and evaluating alternative forms of assessment and developing appropriate strategies for curriculum design and delivery. Possible focus groups will include: Aboriginal children, ethnic minority children, low SES, girls, underachievers, preschoolers, prodigies, and students with emotional difficulties, physical or learning disabilities.

EDGS925 Project in Dual Exceptionality

Spring	Wollongong	On Campus
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Credit Points: 2

Subject Description: This subject builds on the theoretical perspectives gained from the subject, Giftedness in Special Populations. It provides the opportunity for students to explore more deeply a particular issue related to policy or programming for gifted students with other special needs related to their gender, ethnicity, or disability. Students completing the project will select a topic in consultation with the lecturer. The project may take the form of a case study, a curriculum plan or an evaluation study.

EDGT917 English Language: Learners Problems

Autumn	Wollongong	Flexible
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Credit Points: 6

Subject Description: This subject is an introduction to the nature of the English language and the typical problems experienced by non-native speakers of English.

It will canvass the 'basics' of English grammar and vocabulary, from word classes (nouns, verbs, adjectives, etc) through to the structure of sentences. It is aimed primarily at those who are interested in becoming teachers of English to second language learners in Australia or abroad. It will assist participants in consolidating their own knowledge about English and in diagnosing learners' problems. It is not intended as a guide to teaching English grammar (see EDGT923 Teaching Grammar and Vocabulary) nor is it intended as a remedial English course for participants in the subject.

EDGT920 Practicum II

Autumn Wollongong Flexible

Credit Points: 2

EDGT921 Teaching Reading to Second Language Learners

Autumn Wollongong Flexible

Credit Points: 2

Subject Description: This subject explores the nature of reading process and examines the characteristics of ESL/EFL readers with a focus on instructional techniques and materials useful in improving the learners' reading proficiency. It provides guidance in the development and implementation of an interactive approach to teaching reading.

EDGT922 The English Sound System

Autumn Wollongong Flexible
Autumn Wollongong Distance

Credit Points: 2

Subject Description: For those teaching English as a second language, a knowledge of how the English sound system works is essential, not only to help students' pronunciation but also to improve their listening, reading and writing skills. This subject will cover the pronunciation of individual sounds, combinations of sounds, stress patterns and intonation.

EDGT923 Teaching Grammar and Vocabulary

Autumn Wollongong Flexible

Credit Points: 2

Subject Description: When teaching a second or foreign language, it is important to know a variety of techniques for teaching and assessing grammar and vocabulary. This subject will familiarise students with current views on how to teach grammar and vocabulary and how to select activities that are appropriate to the learning context and the learners' age and level of proficiency. The selection of relevant textbooks will also be considered.

EDGT924 Teaching Listening to Second Language Learners

Spring Wollongong Flexible

Credit Points: 2

Subject Description: This subject provides an introduction to knowledge and skills needed to teach listening. It aims to help students to develop a deeper understanding of listening as an interactive process and from this perspective to develop techniques and procedures for teaching effective listening

strategies. The principles of designing various assessment listening tasks will be covered.

EDGT925 Teaching Writing to Second Language Learners

Spring Wollongong Flexible

Credit Points: 2

Subject Description: This subject focuses specifically on teaching ESL/EFL writing skills. It explores the process of second language writing as a foundation for work on the evaluation and development of curricula, methods and tests used in the teaching and assessment of writing skills.

EDGT926 Exploring Genres

Autumn Wollongong Flexible

Credit Points: 2

Subject Description: In order to participate successfully in academic and social contexts, learners of English need to be able to argue, discuss, explain, recount, describe, persuade and so on. In learning to create and comprehend genres such as exposition, reviews and stories, students are learning to use English to achieve their purposes in a variety of situations. This subject will examine the social purposes for which we use language and how texts are structured in order to achieve these purposes.

EDGT927 Managing TESOL Programs

Spring Wollongong Flexible

Credit Points: 2

Subject Description: TESOL professionals are often called upon to take a leadership role and manage programs of study – coordinating ESL programs in schools, taking on the role of Director of Studies in ELICOS courses, providing professional development to colleagues, or even starting their own English tuition schools. This subject provides a brief introduction to the principles and practicalities of leadership and management in such situations.

EDGT928 Teaching English in International Contexts

Credit Points: 2

Not on offer in 2005

Subject Description: TESOL has grown into a flourishing profession where the teachers are continuously exposed to a variety of cultures. In the course of cultural contacts, misunderstandings and misconceptions often occur. This subject is designed to better prepare the future TESOL professional to teach English effectively in international contexts. It offers a deeper understanding of cultural, linguistic and educational differences so as to help future teachers become more sensitive to social-cultural issues involved in teaching English in an international context. Students will have opportunities to familiarise themselves with the employment prospect in various countries. However, the major focus of the subject will be on helping the students develop skills and strategies that will allow them to perform appropriately and professionally in international contexts.

EDGT929 Teaching Speaking to Second Language Learners

Autumn Wollongong Flexible

Credit Points: 2

Subject Description: Oral fluency is regarded as key to the learning of a second language. This subject will look at the nature of oral interaction and how it fosters language learning. It will also consider the role of oral presentations and other uses of spoken language. Assessment of spoken language will also be canvassed.

EDGT940 Materials and Technology

Spring Wollongong Flexible

Credit Points: 6

Subject Description: This subject is intended as a practical introduction to the selection, development, adaptation and evaluation of a range of materials and media for effective second language teaching. It will examine the nature of the materials/technologies, including their place in the curriculum, the assumptions underlying them, and the roles of teachers and learners implied by them.

EDGT976 Text and Context

Autumn Wollongong Flexible

Credit Points: 6

Subject Description: This subject introduces students to a functional approach to language, focusing on the functions that English plays in our lives and the language resources that students need to control in order to use English effectively in a range of situations. The model adopted is that of Halliday and colleagues - an approach that underpins several language syllabuses in Australia and internationally. This approach (Systemic Functional Linguistics) looks at the relationship between the texts that we use in our daily lives and the contexts in which these texts are produced.

EDGT983 Assessment in TESOL

Spring Wollongong Flexible

Credit Points: 6

Subject Description: This subject will prepare those involved in teaching English as a Second Language to assess learners' language proficiency. Participants will be introduced to a variety of assessment approaches and techniques, ranging from informal, classroom based assessment through to high stakes formal tests. Principles of validity and reliability of assessment procedures will be addressed.

EDGT984 Theories of Second Language Learning

Autumn Wollongong Flexible

Credit Points: 6

Subject Description: Second language acquisition draws on theories from linguistics, cognitive psychology, psycholinguistics, sociolinguistics and education, and aims to account for processes of learning a second language. This subject is designed to provide students with a solid grounding in the issues and factors prevailing in second language acquisition. Its scope ranges from first language acquisition to different approaches to examining second language development including behaviourist, cognitive, functional, social-cultural and sociolinguistic approaches.

These topics provide an appreciation of the complexity of second language learning and how successful learning may be promoted.

EDGT985 English in Specific Contexts

Spring Wollongong Flexible

Credit Points: 6

Subject Description: This subject is designed to provide an overview of the recent developments in research on English for Specific Purposes (e.g. business, academic and medical etc). It will begin with a review of the emergence of ESP, its historical background and development, and current status in the context of ESL/EFL. This will then be followed by an introduction to discourse analysis and its relevance to ESP. Cross-cultural differences in discourse patterns will also be explored. Students will have opportunities to analyse written and spoken texts used in different ESP contexts. On the basis of the analysis, the subject will turn to a discussion of the implications for ESP course design and evaluation. Although the focus of the subject is on developing students' ability to design an effective ESP program, their engagement with discourse analysis will help heighten their awareness of the genres which might facilitate their growth as writers in academic settings.

EDGZ900 Introduction to Research Methods in Education

Autumn	Wollongong	Flexible
Spring	Wollongong	On Campus
Spring	Hong Kong University	On Campus
Summer 05/06	Wollongong	Flexible
EDU Intake Jan	Wollongong	Distance
EDU Intake Mar	Wollongong	Distance
EDU Intake May	Wollongong	Distance
EDU Intake July	Wollongong	Distance
EDU Intake Sep	Wollongong	Distance
EDU Intake Nov	Wollongong	Distance

Credit Points: 8

Contact Hours: EDU Intake Mar, Summer 2005/2006, Spring, Hong Kong Uni - Spring, Autumn, EDU Intake May, EDU Intake July, EDU Intake Sep, EDU Intake Nov, EDU Intake Jan

Exclusions: EDGA900

Subject Description: Topics to be studied will include principles and epistemology of educational research; descriptive and inferential techniques; case study and action research; problem identification; design and analysis; interpretation of findings; information and computer based technology in research; overview of research paradigms; ethics in education research. A self-study module is also available for students who have difficulty attending the Wollongong campus.

EDGZ901 Advanced Qualitative Research Methods**Credit Points:** 8**Not on offer in 2005****Pre-requisites:** EDGA900 or EDGZ900 or equivalent**Exclusions:** EDGA901

Subject Description: The purpose of the subject is extend understandings of the qualitative research paradigm and provide opportunities for the systematic discussion and application of inquiry approaches relevant to individual participant needs and interests. An examination of the rationale and epistemological foundations for qualitative inquiry will precede discussion of the ethics and practice of data gathering and analysis, the role of the ethnographer and the communication of inquiry findings.

EDGZ902 Advanced Quantitative Research Methods

Credit Points: 8

Not on offer in 2005

Exclusions: EDGA902

Subject Description: The objective of the subject is to provide some of the practical statistical tools that can be used to carry out educational research. There is heavy emphasis on practical use of software to solve statistical problems, but this is done only after formal derivation of particular techniques

EDGZ903 Minor Project in Education

Autumn	Hong Kong University	Flexible
Autumn	Wollongong	Distance
Autumn	Wollongong	Flexible
Spring	Wollongong	Flexible
Spring	Hong Kong University	Flexible
EDU Intake May	Wollongong	Distance
EDU Intake July	Wollongong	Distance
EDU Intake Sep	Wollongong	Distance
EDU Intake Nov	Wollongong	Distance

Credit Points: 8

Pre-requisites: At least 16 cp in specialisation

Exclusions: EDGA903

Subject Description: This subject is part of the research orientation in the MEd program. It enables a student to explore a research issue in a sustained piece of writing, as preparation for higher degree studies. No project work should be commenced without approval from the Program Co-ordinator or the Head of the Graduate School.

EDGZ905 Major Honours Thesis

Credit Points: 48

Not on offer in 2005

Subject Description: This is the thesis subject for candidates enrolling in a Major Thesis in the MEd(Hons) course in the Faculty of Education. Candidates are required to submit a research thesis in line with the relevant University Rules. No thesis work should be commenced without approval from an appropriate academic supervisor and the Head of the Graduate School of Education.

EDGZ909 Doctoral Thesis

Credit Points: 48

Not on offer in 2005

Subject Description: Prerequisite: completion of required coursework at appropriate level. This is the thesis subject for candidates enrolled in the Doctorate of Education, or a Ph.D supervised in the Faculty of Education. Candidates are

required to submit a research thesis in line with the relevant University Rules. No thesis work should be commenced without the approval of the appropriate academic supervisor and the Head of the Graduate School of Education. Intending candidates should consult the information on admission and course requirements contained in the current Graduate School of Education Handbook and refer to the information provided for EDGZ904. Candidates in EDGZ904, EDGZ905 and EDGZ909 will be required as part of their candidature to participate in and present reports of their research to seminars and other appropriate forums at least once a year. Continuation of candidature will be subject to the satisfactory progress of the research, and to regular participation in such events as monitored through the Annual Progress Report. All candidates are required to be familiar with the current University of Wollongong Code of Practice-Supervision. Candidates enrolling with effect from Autumn Session, 1995 are required to present a review of their proposed research topic within the first session (full-time students) or two sessions (part-time students) of their candidature. The nature of this review should be discussed with the Head of the Graduate School and the Supervisor(s) in the first session of the candidature. Continuation of candidature will be conditional on the satisfactory presentation of the review and acceptance of the proposal by the appropriate Committee of the Graduate School of Education.

EDGZ912 Special Research Topic

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus

Credit Points: 8

Pre-requisites: EDGA900 or EDGZ900 or equivalent

Subject Description: The subject will allow students following a specific specialisation to appraise, extend and apply understanding and skills in their area of professional or academic concern. Students will be required to undertake a critical reading, review and reporting program. Some students may extend their investigation via a small field based inquiry project which will explore the related theory and program issues in a professional setting.

EDGZ921 Introduction To Research & Inquiry

Autumn	Wollongong	Flexible
Spring	Wollongong	Flexible
Summer 05/06	Wollongong	Flexible

Credit Points: 6

Subject Description: This subject examines the nature of inquiry in Education and related areas. The subject will assist students in critically appraising reported research in academic contexts, in public contexts such as government reports, and popular contexts such as the media. It will also provide the tools to conduct small project and site-based research and evaluation studies. Specifically the subject will address questions such as: why conduct research? what constitutes 'good' research? how are methodologies and theoretical frameworks for research determined? what are the ethical implications of conducting and reporting on research? These questions will be explored through tasks and inquiries suited to the backgrounds and interests of students undertaking the subject.

EDGZ922 Conducting Research & Inquiry

Autumn	Wollongong	Flexible
Spring	Wollongong	Flexible

Credit Points: 6

Subject Description: This subject is designed to provide students with the knowledge and skills to conduct research in the context of Education and related areas. It will examine the process of problem-setting, of generating questions and hypotheses. The underlying assumptions of a range of research designs and related methodologies and their practical applications as research technologies will be explored. Students will be introduced to data gathering techniques in the context of their particular backgrounds and research interests.

EDGZ923 Advanced Research & Methodologies**Credit Points:** 6*Not on offer in 2005*

Subject Description: This subject will consist of a number of two credit point modules, each focusing on a particular methodology, site of practice or advanced development in particular research techniques. Modules will include: postmodern research; correlational design and analysis; experimental design and analysis; narrative research; evaluation in the work place; action research; survey and questionnaire design and analysis; biography and life history; textual analysis. Students will need to complete any three modules of their choice in consultation with subject coordinator to successfully complete the subject

EDGZ924 Research Proposal

Autumn	Wollongong	Flexible
Spring	Wollongong	Flexible

Credit Points: 6**Pre-requisites:** EDGZ922 or equivalent

Subject Description: Students will complete a draft introduction, literature review and an outline of their research design for their proposed thesis topic. Opportunity will be given for peer and lecturer critique through draft writing, seminars and web-based discussion. All students will be encouraged to design and trial key data gathering and analysis methodologies that they envisage will be central to their thesis inquiry.

EDGZ925 Advanced Seminar

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus

Credit Points: 8**Pre-requisites:** EDGA900 or EDGZ900 or equivalent**Exclusions:** EDGA925

Subject Description: The Advanced Seminar will allow students to evaluate and extend knowledge in a specific area of education. Students will be required to undertake a critical reading program in this area and extend their work by applying their understanding in a school or community based project which integrates the theory and application. Regular seminars will be presented detailing issues, understandings, progress and final outcome.

EDGZ926 Professional Project

Spring2005/

Autumn2006	Wollongong	On Campus
Annual	Wollongong	Flexible

Credit Points: 12

Subject Description: This subject takes the form of a professional project which involves students identifying issues, researching the literature for recent information and presenting on current issues in their professional area; and the development and implementation of a project which would make a contribution to their local community of practice.

EDGZ951 Poststructuralist/Postmodernist Research

Autumn	Wollongong	Flexible
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Credit Points: 2**Contact Hours:** Autumn**Pre-requisites:** EDGZ922 or equivalent

Subject Description: This module will examine the potentials of postmodern and poststructuralist research in the context of educational research. It will assist students in exploring the theoretical resources on which such research draws and provide opportunities to discuss issues, clarify concepts and apply understandings to research problems.

EDGZ952 Interviews As Research Method

Autumn	Wollongong	Flexible
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Credit Points: 2**Pre-requisites:** EDGZ922 or equivalent

Subject Description: This module will examine the ways in which interviews with one or more people can be used as a research tool to understand the way in which people construct meanings about themselves, their world and other people in it. The subject will examine the ethical and pragmatic issues associated with all stages of the process: that is in choosing participants, designing questions, conducting interviews, and interpreting them and representing these interpretations in research writing.

EDGZ953 Correlation Research

Autumn	Wollongong	Flexible
Spring	Wollongong	Flexible

Credit Points: 2

Subject Description: This module will assist students in developing skills in the answering of questions about data which are essentially correlational in nature. Questions suggesting correlational analysis are typically phrased as 'Is there a relationship between self esteem and performance?' or 'Can we predict (model) performance based on gender, self esteem and school type?'. The primary techniques used for such analysis and covered in this module include correlation, regression, multiple regression and multi-level modelling. Students will be introduced to the process of fitting models including interaction terms, checking assumptions, selecting between models, interpretation of output and writing up results for publication.

EDGZ954 Evaluation Research

Autumn	Wollongong	Flexible
Spring	Wollongong	Flexible

Credit Points: 2

Subject Description: This module will examine the range of approaches in the broad area of evaluation research. The overview will examine what can be evaluated and the forms of evaluation available to undertaking evaluation activities in their own professional life, programs, in organisation they work or are contracted to investigate. The activities in the unit will include readings from the text, discussions on the web and a small hands-on project. The project could be located in a community, professional setting or related to your own professional practice.

EDGZ955 Developing Grounded Theory In Qualitative Research

Autumn	Wollongong	Flexible
Spring	Wollongong	Flexible

Credit Points: 2

Subject Description: This module will explore what the research literature claims 'grounded theory' development is and the methodology used in order to develop it. It will examine the relationship between grounded theory development, reviewing of the literature in the field of study and the qualitative research methods used in the data collection and analysis. Finally it will examine when and why one might use grounded theory methodology.

EDGZ956 Research Methods In Language Education

Autumn	Wollongong	Flexible
Spring	Wollongong	Flexible

Credit Points: 2

Subject Description: This module will familiarise students with a range of research methodologies employed in the field of language education (in particular, TESOL and literacy studies). Students will be provided with a collection of readings dealing with research agendas for language education, current issues, the role of theory, and approaches to data collection and analysis (case study, observation, experiments, introspection, action research, statistical analysis, and so on). Students will also critically examine journal articles reporting on the results of different types of studies.

EDGZ957 Feminist Research

Autumn	Wollongong	Flexible
Spring	Wollongong	Flexible

Credit Points: 2

Subject Description: This module is designed to provide students with an introduction to feminism and feminist scholarship. A variety of readings that focus on issues associated with feminist theory, research and methodology are provided as a basis for discussion and written assessment. The challenge for students is to develop an informed perspective in this area so that they can construct their own frameworks for defining the nature of feminist research.

EDGZ958 Discourse Analysis

Spring	Wollongong	Flexible
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Credit Points: 2

Subject Description: This module will introduce discourse analysis and its application in educational research. The module will consider the range of approaches to discourse analysis and examine the influence of contemporary philosophical perspectives on interpretations of discourse. Students will be encouraged to apply their understandings of these perspectives to the conceptualisation of their research problem and the application of discourse analysis.

EDGZ959 Questionnaire Construction

Autumn	Wollongong	Flexible
Spring	Wollongong	Flexible

Credit Points: 2

Subject Description: This module will examine the ways in which the questionnaire can be used as a research tool to understand the way in which people construct meanings about themselves, their world and other people in it. The subject will examine the ethical and pragmatic issues associated with all stages of the process: that is, in choosing participants, designing questions, administering the questionnaire, setting up the data for analysis and representing the analysis in research writing.

EDGZ960 Case Study Research

Autumn	Wollongong	Flexible
Spring	Wollongong	Flexible

Credit Points: 2

Subject Description: This module will examine the rationale for selecting a case study approach to research, the various purposes for which a case study is appropriate, and the basic types of case studies. The latter includes, but is not limited to, historical case studies, ethnographic case studies, oral histories, and clinical cases. Multiple case study approach will also be considered. Finally, the module will explore the design of case studies and the associated data collection and analysis tools.

ENGINEERING SUBJECT DESCRIPTIONS

CIVL899 Advanced Topics in Engineering

Annual Wollongong On Campus

Credit Points: 48

Subject Description: Students will normally take a selection of topics at advanced level from the following: computer aided analysis and design; computer methods; concrete design; civil engineering materials; finite element techniques; hydrology; hydraulics; numerical techniques; reliability; rock mechanics; soil mechanics; simulation; structural analysis and design; structural topology; town planning; traffic planning; traffic engineering; transportation; highway engineering; urban investigations; structural dynamics; continuum mechanics.

CIVL901 Project

Credit Points: 6

Not on offer in 2005

Subject Description: First stage of a comprehensive study concerning a specific topic; formulation of problem and literature study, critical examination of current work; planning of solution methods; presentation of results.

CIVL903 Concrete Technology

Credit Points: 6

Not on offer in 2005

Subject Description: Mix design theories; design of high performance and lightweight concrete, elastic behaviour; strength, creep, shrinkage; concreting operations; durability; significance of tests and properties of constituent materials; analysis of results; non-destructive tests; special concrete applications.

CIVL904 Highway Materials

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 2L, 2T

Subject Description: Soil and roadmaking aggregate surveys; compaction of soil; road construction with soil and low-grade aggregates; mechanical, cement, bituminous, and resinous stabilisation; constructional methods in soil stabilisation. The origin, preparation, constitution and rheology of bituminous binders; mechanical and physical properties of bituminous materials. Close and open textured materials. Surface dressing. Plant. Sampling and testing. Maintenance. Concrete construction. Materials; mixing; laying; sampling and testing. Maintenance. Pavement design and evaluation - a review of current Australian, European and North American Practice.

CIVL905 Transportation Engineering

Credit Points: 6

Not on offer in 2005

Subject Description: Transport problems; urban travel demands; the transport planning process; travel-demand forecasting; trip generation analysis; model split analysis; trip distribution analysis; route assignment analysis; economic analysis; employment and population forecasts; evaluation of transport plans; airport engineering; classification, design

standards, layout and development, terminal facilities, city-airport transport systems; urban transportation; railroad engineering; light rail rapid transit; pipeline transportation; belt conveyors - freight and passengers.

CIVL907 Civil Engineering Computations

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2L, 4CL

Subject Description: This subject will concentrate on software packages which are designed for application to a wide range of structural types, both two and three dimensional, including trusses, frames, plates and shells. Any combination of these components may be used with a variety of analysis and design procedures including linear elastic analysis, nonlinear optimization, steel frame member design, and design and checking of reinforced concrete building frames including beams, columns, slabs, steel quantity and location, material take-off etc.

CIVL908 Advanced Soil Mechanics

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2L, 2T

Subject Description: The principle of effective stress and its implications; stress paths in soil mechanics; problems of shear strength and failure; peak, residual and softened shear strengths for soil; pore pressure parameters A and B; the use of pore pressure parameters in practice; selected problems of stability and settlement; the analysis and performance of slopes; the factor of safety concept; stress analysis approaches; introduction to soil dynamics.

CIVL909 Advanced Foundation Engineering

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2L, 2T

Subject Description: General principles concerning selection of foundation type on different types of soil; Bearing capacity theory, shallow and deep footings, difficult ground conditions including collapsing and swelling soils; performance observations in geotechnical engineering; preventative and remedial measures against ground movement and slope failure; buoyancy rafts and basements; selected problems of foundation analysis and design; dam foundations; stress distribution and stress analysis; soil sampling and exploration; soil stabilisation including drainage.

CIVL911 Finite Elements Methods

Credit Points: 6

Not on offer in 2005

Subject Description: Variational principles; element shape functions, 'displacement' and 'stress' formulations, curved and isoparametric elements; computer programming techniques; analysis of plates, shells and axisymmetric structures; analysis of slab- and box-type bridge superstructures.

CIVL912 Engineering Hydrology

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 2L, 2T, 2CL

Subject Description: Storm models, storm maximisation, extreme precipitation estimates, intensity-frequency duration analysis, design storms; rainfall losses, infiltration models, design losses; advanced unit - hydrograph theory, synthetic unit hydrographs; hydrograph synthesis by runoff - routing; design floods for rural and urban catchments.

CIVL916 Research Topics in Civil Engineering

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 2L, 2T

Subject Description: Topics will be selected from those areas of Civil Engineering in which staff members or visiting staff members to the Faculty, are engaged in active research.

CIVL920 Civil Engineering Hydraulics**Credit Points:** 6**Not on offer in 2005**

Subject Description: Uniform flow in rivers and flood plains; open channel roughness and flow resistance; non-uniform open channel flow; backwater curve computation; unsteady open channel flow. Flood wave routing; hydraulics of spillways; hydraulics of bridges and culverts; retarding basin hydraulics; urban stormwater drainage design; sediment transport in open channel flow.

CIVL923 Advanced Reinforced Concrete**Credit Points:** 6**Not on offer in 2005**

Subject Description: Strength and behaviour of reinforced concrete members in flexure, shear, torsion and compression; bond and anchorage; non-rectangular sections; numerical and semi-graphical methods. Short and long-term deflections of beams; effect of repeated loading and impact. Analysis and design of deep beams. Yield line method for slabs. Design code provisions.

CIVL980 Advanced Computer Applications

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 2L, 4CL

Assessment: Compulsory assignments (reports) Mid-session Exam (Parts A and B) Final Project (including Oral presentation)

Subject Description: The subject content will comprise a selection from the following topics: Finite element modelling and simulation, system analysis, optimal design of civil and environmental engineering systems, advanced statistical techniques, advanced spreadsheet applications, case studies selected from civil and environmental engineering practice, use of MATLAB, EXCEL and similar computer packages.

CIVL981 Special Topic A

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 6

Subject Description: Specialist topic in civil engineering offered by members of staff, professional engineers or visitors to the Faculty.

CIVL982 Special Topic B

Spring Wollongong On Campus

Autumn Wollongong On Campus

Credit Points: 6

Subject Description: Specialist topic in civil engineering offered by members of staff, professional engineers or visitors to the School.

ENGG901 Introduction to Welding and Joining Processes

CRC Intake -

January Wollongong Flexible

CRC Intake -

March Wollongong Flexible

CRC Intake -

May Wollongong Flexible

CRC Intake -

July Wollongong Flexible

CRC Intake -

September Wollongong Flexible

CRC Intake -

November Wollongong Flexible

Credit Points: 3**Assessment:** Assignments and examination.

Subject Description: Classification of welding processes, applications; typical problems, health and safety issues. Introduction to fusion and pressure welding processes; adhesive bonding, soldering and brazing; joining process physics. Review of basic electrics and electronics; arc characteristics and control. Introduction to behaviour of metals during welding, mechanical testing and NDT. Basic joint design and testing. Quality assurance of joining techniques. Introduction to reclamation repair by welding, advanced welding technology and fracture mechanics.

ENGG902 Fusion Welding Processes Part 1

CRC Intake -

January Wollongong Flexible

CRC Intake -

March Wollongong Flexible

CRC Intake -

May Wollongong Flexible

CRC Intake -

July Wollongong Flexible

CRC Intake -

September Wollongong Flexible

CRC Intake -

November Wollongong Flexible

Credit Points: 3**Pre-requisites:** ENGG901**Assessment:** Assignments and Examination

Subject Description: Introduction to gas shielded welding; process principles of GTAW welding; shielding gases; effect of gases on arc characteristics; filler metals; standards; typical problems; health and safety issues. Tungsten inert gas (TIG) welding; power sources; process factors; joint design; specifications; applications and typical problems; health and safety factors. Plasma, electron beam, laser welding and cutting. Advanced TIG welding.

ENGG903 Other Joining Processes

CRC Intake -		
January	Wollongong	Flexible
CRC Intake -		
March	Wollongong	Flexible
CRC Intake -		
May	Wollongong	Flexible
CRC Intake -		
July	Wollongong	Flexible
CRC Intake -		
September	Wollongong	Flexible
CRC Intake -		
November	Wollongong	Flexible

Credit Points: 3

Pre-requisites: ENGG901, ENGG902

Assessment: Assignments and Examinations

Subject Description: Cold pressure, ultrasonic and explosive welding and diffusion bonding; stud welding and mechanical fasteners; resistance welding, weld-bonding, ERW and flash butt welding; oxy-fuel welding; cutting and other edge preparation processes; friction welding and friction stir welding; MIAB welding; brazing; soldering; and pre-heating, fuel gas, electric equipment and techniques.

ENGG904 Fusion Welding Processes Part 2

CRC Intake -		
January	Wollongong	Flexible
CRC Intake -		
March	Wollongong	Flexible
CRC Intake -		
May	Wollongong	Flexible
CRC Intake -		
July	Wollongong	Flexible
CRC Intake -		
September	Wollongong	Flexible
CRC Intake -		
November	Wollongong	Flexible

Credit Points: 3

Pre-requisites: ENGG901, ENGG902

Co-requisites: Nil

Assessment: Assignments and Examination.

Subject Description: Gas metal arc welding (GMAW); metal inert gas (MIG) welding; metal active gas (MAG) welding; power sources; process factors; special techniques; joint design; specifications; applications; typical problems; health and safety issues. Metal transfer. Manual metal arc (MMA) welding; (SMAW, MMAW); power sources; process factors; electrode coatings; joint design; specifications; applications and typical problems; health and safety factors. Submerged arc welding (SAW); power sources; process factors; joint

design; specifications; applications; typical problems; health and safety issues. Advanced GMAW, FCAW. Electroslag welding; process factors; applications and limitations.

ENGG905 Behaviour of Metals During Welding - Part 1

CRC Intake -		
January	Wollongong	Flexible
CRC Intake -		
March	Wollongong	Flexible
CRC Intake -		
May	Wollongong	Flexible
CRC Intake -		
July	Wollongong	Flexible
CRC Intake -		
Sept	Wollongong	Flexible
CRC Intake -		
Nov	Wollongong	Flexible

Credit Points: 3

Pre-requisites: ENGG901

Co-requisites: Nil

Assessment: Assignments and Examination.

Subject Description: Structures and properties of metals; alloys and phase diagrams; iron-carbon alloys; heat-treatment of steels; microstructures of welded joints; embrittlement and cracking in steels. Structural steels; fine grained steels; thermomechanically processed steels.

ENGG906 Behaviour of Metals During Welding - Part 2

CRC Intake -		
Jan	Wollongong	Flexible
CRC Intake -		
March	Wollongong	Flexible
CRC Intake -		
May	Wollongong	Flexible
CRC Intake -		
July	Wollongong	Flexible
CRC Intake -		
Sept	Wollongong	Flexible
CRC Intake -		
Nov	Wollongong	Flexible

Credit Points: 3

Pre-requisites: ENGG905

Co-requisites: Nil

Assessment: Assignments and Examination

Subject Description: High temperature creep resistant steels; high alloy stainless steels; cryogenic steels; low temperature steels; stainless steels; H/R steels; creep resistant steels; nickel-based alloys; other metals and alloys; welding of ferrous and non-ferrous castings; introduction to corrosion and wear; welding of castings.

ENGG907 Welding of Non Ferrous Metals and Non Metals

CRC Intake -		
January	Wollongong	Flexible

Subject Descriptions

CRC Intake -		
March	Wollongong	Flexible
CRC Intake -		
May	Wollongong	Flexible
CRC Intake -		
July	Wollongong	Flexible
CRC Intake -		
September	Wollongong	Flexible
CRC Intake -		
November	Wollongong	Flexible

Credit Points: 3

Pre-requisites: ENGG906

Co-requisites: Nil

Assessment: Assignments and Examination

Subject Description: Copper and copper-based alloys; aluminium and aluminium-based alloys; joining dissimilar alloys; structures and properties of non-metallic materials and composites; joining of polymers; joining of polymers to metals; joining of ceramics; ceramic-metal joints; methods used for joining of composites and composites to other materials.

ENGG908 Construction and Design - Part 1

CRC Intake -		
January	Wollongong	Flexible
CRC Intake -		
March	Wollongong	Flexible
CRC Intake -		
May	Wollongong	Flexible
CRC Intake -		
July	Wollongong	Flexible
CRC Intake -		
September	Wollongong	Flexible
CRC Intake -		
November	Wollongong	Flexible

Credit Points: 3

Pre-requisites: ENGG907

Co-requisites: Nil

Assessment: Assignments and Examination

Subject Description: Fundamentals of the strength of materials; basics of weld design; design principles of welded structures; joint design; fracture mechanics.

ENGG909 Construction and Design - Part 2

CRC Intake -		
January	Wollongong	Flexible
CRC Intake -		
March	Wollongong	Flexible
CRC Intake -		
May	Wollongong	Flexible
CRC Intake -		
July	Wollongong	Flexible
CRC Intake -		
September	Wollongong	Flexible
CRC Intake -		
November	Wollongong	Flexible

Credit Points: 3

Pre-requisites: ENGG908

Co-requisites: Nil

Assessment: Assignments and Examination

Subject Description: Behaviour of welded structures under load; design of welded structures for static loading; effects of dynamic loading; thermodynamically loaded welded structures; reinforced steel welded joints; design of welded aluminium alloy structures.

ENGG910 Fabrication/Applications Engineering - Part 1

CRC Intake -		
January	Wollongong	Flexible
CRC Intake -		
March	Wollongong	Flexible
CRC Intake -		
May	Wollongong	Flexible
CRC Intake -		
July	Wollongong	Flexible
CRC Intake -		
September	Wollongong	Flexible
CRC Intake -		
November	Wollongong	Flexible

Credit Points: 3

Pre-requisites: 901,902,903,904,905,906,907,908,909

Co-requisites: Nil

Assessment: Assignments and Examination

Subject Description: Cutting and other edge preparation processes. Quality assurance in welded structures; quality control during manufacture; total quality management. Plant facilities; welding jigs and fixtures. Fume and radiation hazards from welding; health and safety issues.

ENGG911 Fabrication/Applications Engineering - Part 2

CRC Intake -		
January	Wollongong	Flexible
CRC Intake -		
March	Wollongong	Flexible
CRC Intake -		
May	Wollongong	Flexible
CRC Intake -		
July	Wollongong	Flexible
CRC Intake -		
September	Wollongong	Flexible
CRC Intake -		
November	Wollongong	Flexible

Credit Points: 3

Pre-requisites: ENGG910

Co-requisites: Nil

Assessment: Assignments and Examination

Subject Description: Welding stresses and distortion; control of welding restraint; stress relieving of weldments. Repair welding; fitness for purpose considerations; economic aspects of weld fabrication; economic considerations of high productivity welding; automatic and robotic welding.

ENGG914 Fabrication / Applications Engineering - Part 3

CRC Intake -		
January	Wollongong	Flexible
CRC Intake -		
March	Wollongong	Flexible
CRC Intake -		
May	Wollongong	Flexible
CRC Intake -		
July	Wollongong	Flexible
CRC Intake -		
September	Wollongong	Flexible
CRC Intake -		
November	Wollongong	Flexible

Credit Points: 3**Pre-requisites:** ENGG905, ENGG906, ENGG907**Co-requisites:** Nil**Assessment:** Assignments and Examination

Subject Description: Practical exercises in weld defect testing using ultrasonics and radiography. Metallographic examination of commercially important metals and alloys, and the microstructures of steel and aluminium weldments. Measurement control and recording.

ENGG915 Design of Structures

CRC Intake -		
January	Wollongong	Flexible
CRC Intake -		
May	Wollongong	Flexible

Credit Points: 3**Pre-requisites:** ENGG908, ENGG909**Co-requisites:** Nil**Subject Description:** Design case studies.**ENGG916 Fabrication Case Studies**

CRC Intake -		
January	Wollongong	Flexible
CRC Intake -		
May	Wollongong	Flexible

Credit Points: 3**Pre-requisites:** ENGG910, ENGG911, ENGG914**Co-requisites:** Nil

Subject Description: NDT, practical, welding procedures, tutorials.

ENGG917 Processes, Equipment, Automation

CRC Intake -		
January	Wollongong	Flexible
CRC Intake -		
May	Wollongong	Flexible

Credit Points: 3**Pre-requisites:** ENGG901, ENGG902, ENGG903, ENGG904**Co-requisites:** Nil

Subject Description: Mechanisation and robotics, case studies and tutorials.

ENGG918 Weldability and Wear

CRC Intake -		
January	Wollongong	Flexible
CRC Intake -		
May	Wollongong	Flexible

Credit Points: 3**Pre-requisites:** ENGG905, ENGG906, ENGG907**Co-requisites:** Nil

Subject Description: Wear, hardfacing, metallography, surfacing, mechanical testing.

ENGG919 Dissertation

Annual	Wollongong	Flexible
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Credit Points: 12**Contact Hours:** Annual**Pre-requisites:** Nil**Co-requisites:** Nil**Assessment:** Thesis

Subject Description: A thesis is required based on project work and/or an interpretative literature review on a topic.

ENGG923 Advanced Digital Sound and Imaging Techniques**Credit Points:** 6**Not on offer in 2005****Pre-requisites:** Nil**Co-requisites:** Nil

Assessment: Final examination, mid-session quizzes, tutorial assessment and laboratory work on digital sound and imaging techniques.

Subject Description: Physics of sound, propagation of sound in air, interference and resonances, harmonics and musical instruments, acoustics; frequency response, digital sound recording and playback, digital filters, digital audio data compression and extraction and audio streaming; sound system design, frequency response curves, sound cards, audio systems, microphones, amplifiers and speakers. Introduction to digital image fundamentals: resolution, bit depth, compression, colour, image enhancement and geometric manipulations; noise reduction; image compositing; time and temporal manipulations, image tracking and stabilization; file formats: quality and efficiency; case studies.

ENGG940 Dissertation

Annual	Wollongong	On Campus
Spring2005/		
Autumn2006	Wollongong	On Campus

Credit Points: 12**Pre-requisites:** Nil**Co-requisites:** Nil

Assessment: Written dissertation report assessed against objectives 1-5

Subject Description: The dissertation is a project allowing you to pursue a particular area in depth and solve a specific practical engineering problem. Students complete a dissertation in their area of interest. The dissertation develops skills in information retrieval, project planning and organisation, analysis, problem solving and effective communication of results. Involves the undertaking of an

individual supervised project focused on solving a problem relevant to the discipline area of the degree. The student would normally be required to do a literature survey, analysis, and develop suitable solutions to the selected problem. This will allow the students to apply the knowledge and skills acquired in the structured coursework and thus gain valuable confidence in their ability to practice engineering at a high professional standard. Two bound copies of the final report must be submitted for assessment, together with an electronic version.

ENGG945 Dissertation

Annual	Wollongong	On Campus
Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus
Spring2005/		
Autumn2006	Wollongong	On Campus

Credit Points: 24

Pre-requisites: Nil

Co-requisites: Nil

Assessment: Written dissertation report assessed against objectives 1-4

Subject Description: The dissertation typically requires rigorous research in a limited area - normally in the area of coursework components undertaken. It comprises a research project based on a problem in the discipline of the degree. The student would normally be required to do a detailed literature survey, analysis, modelling and develop suitable solutions to a selected problem. Students will be able to choose a suitable investigation within the current and relevant research activities associated with the Faculty of Engineering. The dissertation is individually supervised. Two bound copies of the final report must be submitted.

ENGG950 Innovation and Design

Autumn	Wollongong	On Campus
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Credit Points: 6

Contact Hours: 3L

Assessment: Major design project, including individual and teamwork, other assignment, final examination.

Subject Description: Topics will be selected from: The creative and innovative process, aesthetics in design, life cycle design and planning. Design for economy, maintenance, disassembly, recycling, repair and rehabilitation. Designing with materials. Durability of materials, components, systems and structures. Intellectual property, patents and technology transfer. The international marketplace. Constraints on design: standards, specifications and codes of practice. Feasibility studies and costing. Teamwork in design. Case studies.

ENGG951 Engineering Project Management

Spring	Wollongong	On Campus
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Credit Points: 6

Contact Hours: 2L, 1T

Assessment: Assignment 1 (Individual Assignment) 15%
Assignment 2 (Group Assignment) 35% (Including 10% for presentation) Final Examination (2 hours) 50%

Subject Description: Topics will cover: Scope Management, Time Management, Human Resource Management, Risk Management, Financial Management, Project Plans, Project

Quality Management and Procurement & Contract Management.

ENGG952 Engineering Computing

Autumn	Wollongong	On Campus
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Credit Points: 6

Contact Hours: 2L, 2CL

Assessment: Computation exercises (six tasks) 60% of final mark; Final Examination 40% of final mark

Subject Description: Software applications, programming development environments, application areas, mathematical techniques, and approaches to problem solving are explored from a wide variety of possible areas. Topics will be selected from the following list: Windows-based compilers and software libraries such as C/C++, fortran, and visual basic; Numerical and mathematical libraries such as Matlab, Mathematica, and Mathcad; Advanced spreadsheet programming; Data acquisition techniques and software libraries such as NiDaq, LabTek, and LabView; 3D Graphics programming using OpenGL; Advanced engineering graphics using Autocad; Database principles and techniques; Principles of internetworking systems; Mesh Generation for finite element and finite difference modelling; Numerical solution of the equations of physical and engineering systems; Operations research, project management, and reliability simulation; Artificial neural networks.

ENGG953 Modelling of Engineering Management Systems

Spring	Wollongong	On Campus
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Credit Points: 6

Contact Hours: 2L, 2T

Assessment: Projects, assignments and final examination.

Subject Description: Concentrating on the search of appropriate operations research techniques to assist in the solution of engineering management problems and basic experimental design. Topics include:- the basic principles of modelling, decision support models, modelling failure processes, search methods, scheduling models, queuing theory and its application, data collection and design, introduction to experimental design, principles of design, importance of randomisation, simple comparative experiments, experiments with a single factor, randomized blocks and related designs, introduction to factorial designs, Taguchi's philosophy of design.

ENGG954 Strategic Management for Engineers and Technologists

Autumn	Wollongong	On Campus
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Credit Points: 6

Contact Hours: 2L, 2T

Assessment: Debate (Group Assignment) 10% Major project or assignment 40% Examination 50%

Subject Description: The subject introduces engineers and technologists to strategic management. This includes basic principles of analysis, decision-making and implementation. The aim is to create awareness of strategic issues in engineering and technology based organisations. This includes an appreciation of competitive leverage from technology decisions. A need for consciousness of these issues amongst engineers is crucial to their function in both

profit and not for profit organisations.

ENGG955 Engineering Research Methods

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus

Credit Points: 6

Pre-requisites: Nil

Co-requisites: Nil

Assessment: Presentation of a research report (orally and in a written research proposal). Undertaking of an experiment in a laboratory, after initial design.

Subject Description: The overall objective is to develop a structured approach to research in engineering. The focus is on the development of skills in framing a research problem, developing a research design, design of data collection analysis and interpretation frameworks. Literature research skills will be developed. An understanding of the selection and use of measurement sensors and engineering data collection and analysis tools will also be developed. Hands on experience in an engineering laboratory will be a feature. Ethical issues in research will be reviewed. Students will work on a selected project to develop a properly structured research proposal, including a research plan. The plan is to be presented orally and in written form.

ENGG956 Financial Management for Engineered Assets

Credit Points: 6

Not on offer in 2005

Assessment: Project and assignments (objectives 1-6); Final examination (objectives 1-5)

Subject Description: Financial management principles, time value of money, discrete assets considerations, continuous assets considerations, identification of cost elements, cost prediction methods, regulatory economics, financial case development, engineered asset repair-replace decision making.

ENGG957 Project Implementation and Outsourcing

Credit Points: 6

Not on offer in 2005

Assessment: Project and assignments (objectives 1-4); Final examination (objectives 1-4)

Subject Description: Employment law, contract law, issues such as types of interface ie. contract types (cost plus, schedule of rates): HR structure and sourcing arrangements, management of the interface, performance measurement, monitoring and management, managing the client, managing the supplier, legal implications, employment law and safety law implications, duty of care, transmission of business, industrial relations, intellectual property, ownership and use of maintenance data and know-how.

ENGG958 Life-Cycle and Risk Management

Autumn	Wollongong	On Campus
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Credit Points: 6

Contact Hours: 2L, 2T

Exclusions: Replaces MECH970

Assessment: Project and assignments (objectives 1-3); Final examination (objectives 1-3)

Subject Description: Framework, context and history of asset management, strategic management and engineered asset management in context. Application/adaptation of basic tools, costs and benefits of life cycle management, available models and standards. Possible uses of models business drivers, legal requirements, quality systems and configuration and documentation management, interfaces with other functions (departments and organisations).

ENGG959 Asset Management System Design

Credit Points: 6

Not on offer in 2005

Exclusions: Replaces MECH976

Assessment: Project and assignments (objectives 1-7) Final exam (objectives 1-5)

Subject Description: Topics that may be covered include: human aspects of asset management and reliability; ergonomics; work measurement, methods engineering and activity sampling applied to asset management activities; estimation of task time; facilities layout. Planning for shutdowns and overhauls; inventory selection and inventory control systems, configuration management, warehouse control, evaluation of asset management performance.

ENGG960 Maintenance Requirement Analysis

Autumn	Wollongong	On Campus
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Credit Points: 6

Contact Hours: 2L, 2T

Exclusions: Replaces MECH971

Assessment: Project and assignments; Final exam

Subject Description: Maintenance concept design methodology; reliability theory; data recordings and analysis; identification and analysis of failure modes; maintenance rule selection; preventative replacement policies; optimisation of inspection frequencies; clustering of tasks; opportunity maintenance; specification of resource requirements.

ENGG961 Systems Engineering

Spring	Wollongong	On Campus
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Credit Points: 6

Contact Hours: 2L, 2T

Exclusions: Replaces MECH973

Assessment: Project and assignments (objectives 9, 10) Final exam (objectives 1-8, 10)

Subject Description: RAM studies, requirements flow down, cost estimation, analysis on design, probabilistic design, logistic support, maintainability, availability, interface control, system integration, reliability grown modelling, cost estimation, sparrings. Testing and performance evaluation, system safety modelling, installation procedures, asset management, disposal, asset purchase/replacement policies and decision-making.

ENVE899 Advanced Topics in Environmental Engineering

Annual	Wollongong	On Campus
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Credit Points: 48

Subject Description: One or more advanced topics taken from the following: computer aided analysis and design; computer methods; environmental hydraulics; pollution

control; erosion and land rehabilitation; waste management; environmental impact assessment; environmental modelling processes; environmental geotechnology; transport and the environment; ground and mine-water.

ENVE901 Project

Credit Points: 6

Not on offer in 2005

Subject Description: First stage of a study on a selected topic, including formulation of the problem, literature study, development of study plan, and presentation of results.

ENVE916 Research Topics in Environmental Engineering

Credit Points: 6

Not on offer in 2005

Subject Description: Topics will be selected from the areas of environmental engineering in which staff members are engaged in research.

ENVE923 Industrial Waste Engineering and Cleaner Production

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2L, 2T

Subject Description: Issues covered include industrial waste minimisation and treatment, industrial processes and control techniques. Waste auditing of an industry will be illustrated using a case study.

ENVE924 Solid and Hazardous Waste Management

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 2L, 2T

Subject Description: Two areas are covered: Generation, characterisation, collection and minimisation of solid waste; and classification, treatment and final disposal of hazardous waste.

ENVE925 Water Quality Engineering and Management

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 2L, 2T

Assessment: Mid session test, tutorial assignments, laboratory reports and final examination.

Subject Description: The main aim is to introduce concepts relating to water resources and global water problems, water quality characteristics, water quality processes and guidelines, water quality management, water supply and sanitation, natural treatment processes, various municipal water and wastewater treatment processes and wastewater reuse and recycling that will lead to sustainable development. The lecture components will be supplemented with relevant tutorials and weekly assignments. A number of laboratory classes will give students hands on exposure to determination.

ENVE926 Air and Noise Pollution Management

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 2L, 2T

Assessment: Mid session test, tutorial assignments, laboratory reports and final examination.

Subject Description: This subject covers the occurrence and consequence of air and noise pollution to modern society. The subject commences with an overview of the problem, identifies sources of pollution, deals with methods to measure and analyse the extent of the pollution, and concludes with methods to control the pollution.

ENVE927 Environmental Engineering Processes Design

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2L, 2T

Pre-requisites: ENVE925 Water Quality Engineering and Management

Assessment: Tutorial submissions, design project, exams and field trip reports.

Subject Description: This subject is designed to introduce system design using unit processes encountered in environmental engineering. The subject will cover design concepts, detailed and advanced design of water supply and treatment systems, advanced solid -liquid separation processes, design of wastewater collection systems, design of advanced wastewater treatment plant design, ocean outfall systems, design of land based systems, network design. The subject also includes design of air pollution and control systems. The lecture components will be complemented with design classes and field trips.

ENVE928 Design of Urban Water Systems

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 2L, 2T

Assessment: Design projects on urban stormwater drainage; urban and river water quality; and onsite systems.

Subject Description: This design subject will focus on several group design projects in urban storm water management in terms of quality and quantity, river water quality and onsite waste management systems. In urban drainage design, you will use rational design and DRAINS model. In stormwater quality, pollutant build up - washoff relationships will be developed, the river water quality using QUALIIE model and design of onsite systems using Australian standards.

ENVE929 Site Contamination and Remediation Technologies

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 2L, 2T

Assessment: Assignment, field trip report, session quizzes and final exam.

Subject Description: The course describes the chemistry of soils, interactions of pollutants with soils and organic matter and their fate in the environment. Saturation of soils with contaminants through various sources has led to groundwater

contamination. Characterisation of such sites, monitoring parameters, decision making and regulation will be included in this subject. The remediation of such contaminated soils and groundwater will be described with selected technologies, options of site containment, which is currently the most common technique will also be covered. The course will give an overview of the options and tools to assess and select the appropriate technology. This will also involve the revision of chemical parameters and students without the expected pre requisites are required to revise chemical principles independently.

ENVE930 Coastal, River and Groundwater Engineering

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2L, 2T

Assessment: Tutorials, assignments and final exam.

Subject Description: Coastal Engineering - wave forecasting; wave refraction; diffraction and breaking; wave forces on structures; beach erosion and beach protection. Water Resources - the hydrologic cycle; distribution of the world's water resources; surface water resources; groundwater resources; computer models of catchment water balances; storage reservoir yield analysis. River Engineering - fluvial hydraulics; morphology of natural channels; soil erosion, sediment transport in streams; re-naturalising streams; Groundwater Hydraulics - groundwater quality and contaminants - reservoir sedimentation; hydraulic structures.

ENVE931 Membrane Processes and Applications

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2L, 2T

Assessment: Literature review and group presentation, system design group exercise, oral presentation and final examination.

Subject Description: The subject intends to demonstrate to students how nature works (biological membranes) and how such principles (membrane processes) can be used for medical, water and wastewater, processing and other industries by engineering appropriate materials and systems. The subject hence leads from nature to material science and engineering, fundamental transport principles to applications and process design with immediate relevance to the water and wastewater treatment industry where membranes are becoming a predominant process choice worldwide. The subject aims to bring science and engineering together on a number of levels such as in terms of learning from nature, applying engineering solutions to medical applications and using scientific principles to obtain engineering solutions. Both engineering and science students will be exposed to the thinking in the other discipline.

ENVE981 Special Topic A

Autumn Wollongong On Campus
Spring Wollongong On Campus

Credit Points: 6

Subject Description: Specialist topic in environmental engineering offered by members of staff, professional engineers or visitors to the department.

ENVE982 Special Topic B

Autumn Wollongong On Campus
Spring Wollongong On Campus

Credit Points: 6

Subject Description: Specialist topic in environmental engineering offered by members of staff, professional engineers or visitors to the department.

ENVE985 Environmental Engineering

Autumn Wollongong On Campus

Credit Points: 8

Contact Hours: 2L, 2T

Assessment: Laboratory Reports and Examinations.

Subject Description: This subject takes an engineering approach to solving problems in air, noise and water pollution. It considers the sources, effects and methods of control of the pollutants, as well as legislative requirements. The lecture and tutorial components of this subject are complemented by extensive field and laboratory sampling, measuring and analysis.

MATL899 Advanced Topics in Materials Engineering

Annual Wollongong On Campus

Credit Points: 48

Subject Description: A program approved by the Discipline Adviser of project work and studies of advanced topics in materials selected from the fields of processing, physical and mechanical behaviour, microstructure and observational methods.

MATL901 Special Topic in Materials 1

Autumn Wollongong On Campus
Spring Wollongong On Campus

Credit Points: 6

Subject Description: There are no set syllabi for these subjects. It is intended that they will be offered on a specialised materials engineering topic.

MATL902 Special Topic B

Autumn Wollongong On Campus
Spring Wollongong On Campus

Credit Points: 6

Subject Description: There are no set syllabi for these subjects. It is intended that they will be offered on a specialised materials engineering topic by members of the School, or visitors to the School.

MATL903 Recent Developments in Materials

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2L, 2T

Subject Description: Considerations of the structures, properties, technology and applications of advanced materials with emphasis on materials important to the Australian economy.

MATL905 Metallic Materials

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2L, 2T

Subject Description: Commercial metals and alloys. Relationships between structure and industrially significant properties. Control of structure by processing. Thermal and mechanical treatment. Recovery and recrystallization. Metal-matrix composites.

MATL906 Ceramic Materials

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 2L, 2T

Subject Description: Ceramics - traditional and advanced. Microstructure-property relationships. Processing, solid state and liquid phase sintering. Applications. Ceramic matrix composites.

MATL907 Polymeric Materials

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2L, 2T

Subject Description: Polymers, formation and classification. Effects of structure and additives on properties. Composite materials with polymeric matrices.

MATL908 Phase Transformations

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 2L, 2T

Subject Description: Analysis and theories of solid state phase transformations, nucleation phenomena, diffusional and diffusionless growth; application to precipitation, eutectoid, proeutectoid, martensitic and other processes.

MATL911 Mechanical Behaviour of Materials

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 2L, 2T

Subject Description: Behaviour of ceramics, metals and polymers under stress, stress-strain relationships, time and temperature dependent phenomena.

MATL932 Surface Engineering of Materials

Credit Points: 6

Not on offer in 2005

Subject Description: Surface coating processes, coating of materials with ceramics, metals and polymers; quality and performance of the product; surface heat treatment processes.

MATL936 Chemical Reaction Engineering

Credit Points: 6

Not on offer in 2005

Co-requisites: MATH188

MATL937 Process Metallurgy

Credit Points: 6

Not on offer in 2005

Subject Description: Ironmaking. Sintering and pelletising; time-temperature effects; phase composition; strength-reducibility relationships; mix selection; cokemaking; fundamental relations; coke strength and reactivity; blast furnace process; Rist and Reichert diagrams; burden design and distribution; stack, bosh and hearth processes; DRI.

MATL952 Performance of Materials B

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 2L, 2T

Subject Description: Environmental behaviour. Thermodynamic aspects. Oxidation, processes and kinetics. Oxidation resistance. Aqueous corrosion, types of reaction, avoidance and restraint. Degradation of polymers and ceramics. Wear and abrasion. Stress corrosion and corrosion fatigue.

MATL972 Selection and Design of Materials

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2L, 2T

Subject Description: General classifications and properties of materials. Standards, codes and specifications. Property requirements for specific applications. Bases for choice of materials, testing and evaluation. Constraints imposed by environmental, manufacturing and economic considerations. Use of computers and data banks. Case studies.

MATL988 Metallurgical Processing 2

Credit Points: 6

Not on offer in 2005

Pre-requisites: MATH202 and MATH203

MATL999 Advanced Topics in Materials

Credit Points: 48

Not on offer in 2005

Pre-requisites: MATH202 and MATH203

MECH899 Advanced Topics in Engineering

Annual Wollongong On Campus

Credit Points: 48

Subject Description: Students will normally take a selection of topics at advanced level. The selection of the topics will be subject to the approval of the Head of the Department in which the student wishes to enrol and subsequently specialise.

MECH903 Biomechanical Engineering

Credit Points: 6

Not on offer in 2005

Subject Description: This subject introduces a selection of advanced quantitative methods used in biomechanical assessment of human movements. Topics include three-

dimensional dynamics, modelling techniques (including finite element, simulation and optimisation).

MECH913 Pneumatic Transport of Bulk Solids

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2L, 2T

Subject Description: Classification and selection of transport systems; flow patterns; pressure drop, minimum transport velocities; design parameters and examples; feeding and disengaging methods.

MECH918 Sustainable Energy in Buildings

Credit Points: 6

Not on offer in 2005

Subject Description: Advanced topics in: performance of buildings with particular regard to thermal comfort and ventilation; analysis and design of conventional air conditioning systems to appropriate standards; passive solar design of buildings; energy conservation in buildings; embodied energy in buildings; natural ventilation systems; and refrigeration systems.

MECH919 Advanced Topics in Mechanical Engineering 1

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 6

Subject Description: There is no set syllabus for this subject. It is intended that it normally be offered on a specialised mechanical engineering topic given by members of the Department, visiting academic staff or engineering consultants.

MECH920 Numerical Methods in Mechanical Engineering

Credit Points: 6

Not on offer in 2005

Assessment: Final examination and assignments.

Subject Description: The subject consists of two main areas: a. Computational fluid dynamics which includes a selection of computer techniques applied to aerodynamics and hydrodynamics; and b. A study of industrial fluid mechanics which includes a selection of the following topics; principles of turbo machinery; pipe networks; control and suppression of pressure surges in pipelines; causes and avoidance of flow induced vibration in engineering systems.

MECH925 Advanced Fluid Power

Credit Points: 6

Not on offer in 2005

Subject Description: Fluid power components; circuit design; analysis of transmission, valve-controlled and feedback systems; electronic controls; vibration and transient response.

MECH926 Applied Fluid Mechanics

Credit Points: 6

Not on offer in 2005

Subject Description: A study of applied fluid mechanics which will include the analysis, design and control of a selection of fluid flow systems in industry.

MECH927 Physical Processing of Bulk Solids

Credit Points: 6

Not on offer in 2005

Subject Description: Bulk solids description and characterisation; crushing, grinding, thickening, separation, precipitation, filtration, blending, tableting, briquetting and agglomeration, sizing and classification; introduction to beneficiation; drying; intermediate processing and handling; control and instrumentation; dust generation and abatement.

MECH928 Finite Element Techniques in Mechanical Engineering

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2L, 2T

Subject Description: Introduction to finite element method. Application of finite element technique to stress analysis, fluid mechanics, heat transfer, vibration. Computer packages.

MECH929 Advanced Topics in Mechanical Engineering 2

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 3L

Subject Description: As for MECH919.

MECH930 Mechanical Vibration and Condition Monitoring

Credit Points: 6

Not on offer in 2005

Subject Description: Balancing of machinery. Vibrations, Energy Method and Rayleigh Principle. Two degrees of freedom system, free vibration, transient response, steady state response, damping. Multimass system, free vibration, forced vibration, damping. Vibration of beams. Torsional vibration in rotating machinery. Conditions monitoring of machinery: vibration measurement and analysis.

MECH931 Friction Lubrication and Wear

Credit Points: 6

Not on offer in 2005

Subject Description: Navier-Stokes and Energy equation of viscous fluid flow and their application to hydrodynamic journal and thrust bearings. Characteristics of hydrodynamic and hydrostatic bearings. Bearings selection and design. Rolling bearings and Elasto-hydrodynamic lubrication. Friction and wear processes. Boundary lubrication. Properties of lubricants and bearing materials and their interaction. Application in industry.

MECH933 Solar Energy

Credit Points: 6

Not on offer in 2005

Subject Description: Principles and techniques applicable to

Subject Descriptions

the analysis and design of solar thermal energy systems. Solar radiation; transmission and absorption by collectors; analysis and design of collectors; energy storage; system thermal calculations; solar process economics.

MECH934 Advanced Manufacturing Processes

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2L, 2T

Subject Description: Modelling of advanced manufacturing processes; manufacturing cost analysis; productivity and quality methods and measurements in manufacture; computer-assisted process planning; manufacturing optimisation; trends in advanced manufacturing processes, recycling aspects.

MECH935 Integrated Manufacturing Systems

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 2L, 2T

Assessment: Assignments and final examination.

Subject Description: Concurrent engineering, its application and benefits; computer integrated manufacturing concepts and applications; CAD/CAM, CNC programming, FMC, FMS; computer-process interfacing; process and tool condition monitoring; computer-aided quality control; assembly systems, assembly lines, assembly line balancing; design for manufacture - casting, forming, machining and selected examples; human interface in manufacturing systems; future trends.

MECH939 Advanced Topics in Mechatronic Engineering

Spring Wollongong On Campus

Autumn Wollongong On Campus

Credit Points: 6

Subject Description: There is no set syllabus for this subject. It is intended that it normally be offered on a specialised mechatronic engineering topic given by members of the Faculty, visiting academic staff or engineering consultants.

MECH941 Micro/Nano Robotic Systems

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2L, 2T

Pre-requisites: Nil

Co-requisites: Nil

Assessment: Mid term exam, assignments and research report and presentation, final exam - objectives i-iv

Subject Description: An overview of manipulation systems, comparison of macro-micro-nano worlds, micro/nano mechanics, actuation, sensing, design, manufacturing/fabrication, control and calibration issues in micro/nano robotic systems, examples of micro/nano robotic systems and their application areas.

MECH948 Sustainable Energy Technologies

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 2L, 2T

Assessment: Case study or laboratory work
Analytical/descriptive written assignment
Oral presentation
Final exam

Subject Description: This subject covers a number of Sustainable Energy Technologies including the following: solar thermal systems; photovoltaics; wind energy; hydroelectricity generation; wave power systems; biomass; remote area power supplies; energy conservation/auditing. The environmental and social impact of these technologies as compared to conventional energy sources will be considered. Students will undertake a laboratory/field experiment or project, and/or carry out a case study.

MECH949 Advanced Computer Control of Machines and Processes

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2L, 2T

Subject Description: Advanced modelling and control of multivariable systems: performance of multivariable control systems; optimal control theory; robust control systems; design, implementation and evaluation of digital control systems.

MECH950 Advanced Robotics

Spring Wollongong On Campus

Credit Points: 6

Assessment: Project reports
Mid Session Examination
Laboratory Report
Final Examination

Subject Description: The subject provides the knowledge and skills required to design appropriate robotic systems. Topics covered include: industrial robots as a component of automation, mathematical modelling of a robotics arm, direct and inverse kinematics model, direct and inverse dynamics model, trajectory planning, robot control, design and selection of drives and motors, industrial vision systems, position sensors, force sensors, ultrasonic sensors and other sensors

MECH972 Condition Based Maintenance

Intake D Wollongong On Campus

Autumn Wollongong Distance

Credit Points: 6

Contact Hours: 2L, 2T

Assessment: Assignments and final examination assessing all of the objectives

Subject Description: Overview of fault diagnosis techniques (electrical-mechanical-computer); Identification of critical plant, failure types-modes. Diagnosis documentation; Maintenance strategies; Target areas for successful applications; Sensor technology overview; Condition monitoring strategy, techniques and organisation; Automation aspects in condition monitoring; Expert-AI systems; Costs and problems; Decisions on the periodicity of condition monitoring; Case studies.

MECH977 Advanced Topics in Maintenance 1

Credit Points: 6

Not on offer in 2005

Subject Description: There is no set syllabus for this subject. It is intended that it normally be offered on a specialised maintenance topic given by members of the Department, visiting academic staff or engineering consultants.

MECH979 Sustainable Transport and Engine Technology

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2L, 2T per week, plus 4Lab each session

Assessment: Assignment 1 Assignment 2 Seminar/ Report
Engine Lab Final Examination

Subject Description: Advanced topics in: human powered transport, conventional and novel engine technology and design; strategies for reducing emissions; alternative fuels; solar vehicles; fuel cells and hybrid vehicles.

MECH980 Functional Analysis and Risk Management

Credit Points: 6

Not on offer in 2005

Subject Description: Requirement analysis of systems and components: functional requirements and constraints analysis. Functional analysis and allocation. Parametric analysis and decision trees. Sensitivity analysis and control. Risk trade-offs.

MECH981 Concurrent Design Management

Credit Points: 6

Not on offer in 2005

Subject Description: System integration from the functional to the physical stage. Project planning. Risk management. Management of configuration, interface. Human engineering: task, operational sequencing, personnel requirements, error and safety analysis.

MECH982 Bulk Solids Characterisation and Particulate Mechanics

Credit Points: 6

Not on offer in 2005

Subject Description: Concepts of particle mechanics (failure criteria, models to represent such criteria as particle size and distributions, particle shape, compressibility, permeability, internal friction, cohesion, adhesion, wall friction); concepts of flow properties of bulk solids for equipment design; flow property measurement techniques; use of computer software to analyse and present experimental data for use in design.

MECH983 Bulk Solids Handling (Storage and Flow)

Credit Points: 6

Not on offer in 2005

Subject Description: Basic concepts of storage; flow and feeding of bulk solids; use of flow properties to determine hopper geometrics; bin wall loads; feeding and discharge systems, feeder loads; chute design; flowrate prediction; segregation and blending; dust suppression systems; stock pile systems; case studies.

MECH984 Belt Conveying

Credit Points: 6

Not on offer in 2005

Subject Description: Belt conveying systems; properties of conveyor belting; tension analyses (static and dynamic); drive systems; loading and unloading belts; trajectory prediction; transfer chute design novel belt systems; economic analyses.

MECH985 Dust and Fume Systems

Credit Points: 6

Not on offer in 2005

Subject Description: Basic concepts; terminology and problems; health and safety regulations; dust characterisation; fan performance characteristics; capture velocities and minimum transport velocities; hood and enclosure design; duct design; dust generation and its minimisation; filtration systems; design of dust handling and disposal systems; occupational health and safety; dust explosion; case studies.

MECH986 Instrumentation and Control Systems For Bulk Solids

Credit Points: 6

Not on offer in 2005

Subject Description: Transducer types and their specification and applications; dynamic response of systems; speed measurement and control; mass flow rate measurement; belt weighing; weigh belt feeders; continuous and batch weighing systems; bin weighing systems and structural implications; system accuracy; interfacing with PLC's and computers; case studies.

MECH987 Advanced Topics in Bulk Solids and Particulate Technologies 1

Credit Points: 6

Not on offer in 2005

Subject Description: There is no set syllabus for this subject. It is intended that it normally be offered on a specialised topic relating to some aspect of modern technologies relating to bulk solids and/or particulate technologies by staff members/visiting specialists and/or engineering practitioners.

MECH988 Advanced Topics in Bulk Solids and Particulate Technologies 2

Credit Points: 6

Not on offer in 2005

Subject Description: There is no set syllabus for this subject. It is intended that it normally be offered on a specialised topic relating to some aspect of modern technologies relating to bulk solids and/or particulate technologies by staff members/visiting specialists and/or engineering practitioners.

MECH989 Advanced Topics in Bulk Solids and Particulate Technologies 3

Credit Points: 6

Not on offer in 2005

Subject Description: There is no set syllabus for this subject. It is intended that it normally be offered on a specialised topic relating to some aspect of modern technologies relating to

bulk solids and/or particulate technologies by staff members/visiting specialists and/or engineering practitioners.

MECH990 Bulk Solids and Particulate Technologies Project

Credit Points: 12

Not on offer in 2005

Subject Description: Prepare a thesis on an approved topic related to bulk solids and/or particulate technologies. Normally the thesis will cover work performed in the workplace and additional supervision by an industry representative.

MECH993 Maintenance Management of Bulk Handling Systems

Credit Points: 6

Not on offer in 2005

Subject Description: Maintenance function principles and objectives; reliability and maintainability; maintenance planning; maintenance strategy for plant - a systems approach; maintenance and information support; failure analysis; maintenance organisation; maintenance control and documentation; human resource management; total production maintenance; auditing industrial maintenance systems.

MECH994 Mechanical Handling Systems

Credit Points: 6

Not on offer in 2005

Subject Description: Loss factor of transport; economic analysis of conveying and transportation systems; aspects of particulate mechanics in relation to mechanical handling systems; design concepts and performance criteria of mechanical conveying and feeding equipment employed in process plants. Performance analysis and evaluation of mechanical loading and unloading systems such as used in ship transport.

MECH995 Bulk Solids Handling (Systems and Design)

Credit Points: 6

Not on offer in 2005

Subject Description: Bin wall loads for symmetric and eccentric discharge; analysis of dynamic effects, the 'silo quaking' problem; wall roughness, friction and wear; feeder design principles; performance analysis of a range of feeders for bulk solids; flow promotion; blending and mixing; flow of fine powders; transfer chutes; vibration of bulk solids.

MINE899 Advanced Topics in Mining Engineering

Annual Wollongong On Campus

Credit Points: 48

Subject Description: Computer aided analysis and design; computer methods; ore reserve estimation finite element techniques; hydrology; hydraulics; numerical techniques; reliability; rock mechanics; simulation; structural analysis and design; structural topology; mine planning.

MINE902 Advanced Studies in Mining Engineering

Credit Points: 6

Not on offer in 2005

Subject Description: Topics will be selected from those areas of Mining Engineering in which staff members or visiting staff members to the Department are engaged in active research.

MINE903 Simulation of Mining Operations and Problems

Credit Points: 6

Not on offer in 2005

Subject Description: Including coal reserves, mining dimensions, surface effects, cost benefit effects of operation and management and economic evaluation and feasibility of a mining enterprise.

MINE904 Rock Mechanics

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 2L 2T

Subject Description: Fundamentals of strata mechanics together with advanced topics including engineering technology and rock mechanics aspects of coal mining strata control. Design aspects of mine structures, such as mine pillars, gate roads and longwall mining. Instrumentation in providing for the safe design of the mine opening. Rock and cable bolting techniques and powered support design.

MINE905 Environmental Control in Mines

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2L 2T

Subject Description: Mine climate and its control, ventilation planning, ventilation network analysis and simulation; fan selection, booster fans; ventilation of long headings, recirculation; exhaust from diesel engines and their control; methane and its control in underground coal mines, dust in mine air and its control.

MINE906 Mining Engineering Techniques

Credit Points: 6

Not on offer in 2005

Subject Description: A selection of advanced laboratory and field exercises in mine support, temporary and long term; in situ testing, laboratory testing, rock properties and parameters; mine design and plant related to extraction areas.

MINE916 Mineral Valuation and Risk Analysis

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2L, 2T

Assessment: Oral presentation (objectives 1-3), Assignments (objectives 1-3), Major assignment or mini-project (objectives 1-3) and Final examination (objectives 1-3).

Subject Description: This subject aims to provide resource

professionals with the analytical tools to assess and evaluate the financial viability of an exhaustible resource project at various stages from exploration into development. It provides the student with knowledge of the theory, principles and applications of probabilistic discounted cash flows to the risk analysis of resources projects. Monte Carlo and Latin Hypercube simulation methods are discussed in the evaluation of financial risks. The subject also surveys the effects of mining taxation and other government imposts on a mining project and the impact of inflation on cash-flow analysis.

MINE917 Mineral Economics

Spring Wollongong On Campus

Credit Points: 6

Assessment: Oral presentation (objectives 1-3), Assignments (objectives 1-3), Major assignment or mini-project (objectives 1-3) and Final examination (objectives 1-3).

Subject Description: This subject introduces the economics theory of exhaustible resources, including the geographic distribution, abundance and availability of mineral resources, the resource base concept and the definition, measurement and conversion resources and reserves; and the concepts of resources supply and demand.

MINE918 Commodity Analysis

Credit Points: 6

Not on offer in 2005

Assessment: Oral presentation (objectives 1-3), Assignments (objectives 1-3), Major assignment or mini-project (objectives 1-3) and Final examination (objectives 1-3).

Subject Description: This subject provides specialist skills for the analysis of mineral commodities, including the principles of commodity marketing, commodity price formation, the factors affecting supply and demand, the structure of commodity and metal markets, future trading in commodities, market behaviour and price response and commodity price forecasting.

MINE919 Mineral Resources Policy

Credit Points: 6

Not on offer in 2005

Assessment: Oral presentation (objectives 1-3), Assignments (objectives 1-3), Major assignment or mini-project (objectives 1-3) and Final examination (objectives 1-3).

Subject Description: This subject examines the social economic and political processes through which mineral resource policy is developed. Case studies will be used to understand the impacts of resources development. Theoretical perspectives may include the politics and sociology of resources development, global, national and regional developments in mineral resources regulation, theories of state regulation and intervention, and the choice and negotiation of different policy strategies.

PHYS910 Advanced Project in Physics A

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 6P

Pre-requisites: None

Assessment: Satisfactory operation and written descriptions of completed experiments.

Subject Description: The student will be required to design and construct several self-contained experiments at the level of those encountered in Advanced Experimental Physics. OR After successfully completing this subject, the student will :- have gained experience in contributing to the work of a small research group; be able to keep detailed working records of the progress of experiments; have gained a variety of intermediate practical and analytical level skills related to the specific area of research in which they have been involved; be able to present a short seminar on the research in which they were engaged.

PHYS946 Advanced Solid State Physics

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 3L

Assessment: Assignment problems, tests and sessional examinations.

Subject Description: Crystal Symmetries; Groups of Linear Transformation; Abstract Groups; Theory of Group Representations; Group of the Schrodinger Equation; Selection Rule Theorem; Groups of Physical Interest; Rotation Operations; Double-Valued Representations; Direct Products; Crystal Fields; Adiabatic Approximations; Bloch's Theorem; The Effective Mass Expansion; Spin-Orbit Interaction; Time-reversal Symmetry; Symmetry Properties of Wave Vectors; Band Theory; Impurities in Semiconductors.

PHYS947 Special Topics in Physics A

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 3L

Assessment: Project Work and Seminar

Subject Description: A special topic to be selected from any area of Physics. The selection to be made by the Physics Academic Adviser.

PHYS948 Physics of Imaging

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 3L 3P

Subject Description: Photographic processes and interpretation; Optical and infrared arrays; Image digitising systems; Radio synthesis imaging and fourier optics; Image analysis; Applications in industry, medicine and astrophysics.

PHYS951 Medical Physics Research Project

Annual Wollongong On Campus

Credit Points: 18

Contact Hours: 6P

Pre-requisites: None

Co-requisites: None

Assessment: Substantial report and seminar.

Subject Description: The student will be required to undertake an applied research project on a topics of medical

radiation physics under the supervision of one of the staff members working in the area of medical radiation physics. The area of research will be selected from the following fields: Nuclear Medicine, Medical Imaging, Radiobiology, Radiation Protection, Diagnostic Radiology, Radiotherapy, Instrumentation and Imaging Physics. All the above research topics may not be available every year.

PHYS952 Radiation and Radiotherapy Physics

Autumn Wollongong On Campus

Credit Points: 8

Contact Hours: 3L 3P

Pre-requisites: None

Co-requisites: None

Assessment: Written examinations, assignments and practical.

Subject Description: This subject is intended to lead to an understanding of the instrumentation and techniques involved in diagnostic and therapeutic uses of radiation in medicine. Topics covered will include Interactions of Radiation with Matter, Sources of Radiation, Detecting Radiation, Nuclear Elect4ronics and data acquisition system, Nuclear Reactions and Production of Radioisotopes, Neutron Physics, Dosimetry of photons, electrons and neutrons, Solid State Dosimetry, TLD and film dosimetry, Introduction to Radiation Therapy, Medical Linear Accelerators, X-ray Modeling Methods, Brachytherapy and Radiosurgery, Clinical Radiotherapy, Linear Accelerators X-ray and Electron Beam Properties.

PHYS953 Medical Imaging and Nuclear Medicine

Annual Wollongong On Campus

Credit Points: 8

Contact Hours: 2L 2P

Pre-requisites: Nil

Co-requisites: Nil

Assessment: Written examinations, assignments, presentation and practical pass/fail. Students are required to pass the practical.

Subject Description: This subject is intended to lead to an understanding of the instrumentation and techniques involved in medical imaging and an appreciation of the part played by image analysis in medical physics specifically. Topics covered will include - the photographic process, solids state detectors and CCDs, the hardware of image processing; film digitisers and plate scanners, software techniques, histograms, enhancements, convolution, edge enhancement, Fourier techniques and operator synthesis, nuclear magnetic resonances, Larmor frequency, basic imaging, slice selection, 3D data acquisition, chemical shift imaging, contrast agents, image artefacts and distortion. The evolution and basic physics of radionuclide imaging, the tracer principle in Nuclear Medicine. The ideal properties for radioactive agents for diagnostic studies, the ideal properties for therapeutic radioactive agents, basic physiology of body organs pertinent to Nuclear Medicine.

PHYS954 Radiobiology and Radiation Protection

Spring Wollongong On Campus

Credit Points: 8

Contact Hours: 3L 3P

Pre-requisites: None

Co-requisites: None

Assessment: Written examinations, assignments and practical.

Subject Description: Topics covered in this subject include - Interaction of radiation with living cells and tissue; clinical fractionation; clinical radiation syndromes; radiobiological modelling; experimental radiation oncology; local control vs system control; radionuclide therapy; binary therapy; new radiotherapy modalities and their radiobiology; dosimetry; natural background radiation; principles of radiation protection; instrumentation for radiation protection; Radiation protection in radiation therapy and diagnostic

PHYS955 Transitional Medical Radiation Physics Program

Annual Wollongong On Campus

Credit Points: 8

Pre-requisites: None

Assessment: Examinations 40%, Problems 20%, Practical 20% and Seminar 20%

Subject Description: The Transitional Program will have the following structure: Radiation and Radiotherapy Physics - involving practical and clinical laboratory work in the following areas: QA and Simulator (10hrs), Advanced Pinnacle and Dose Planning (16hrs), Monte Carlo simulations (8hrs) and Brachytherapy (4hrs); Medical Imaging and Nuclear Medicine (60hrs) - no further work is required of Honours graduates in Medical Imaging. Students will be required to attend the Nuclear Medicine module of PHYS953. In addition students will be required to produce a paper and present a major seminar on an aspect of clinical medical radiation physics.

PHYS960 Advanced Project in Physics B

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 6P

Assessment: Satisfactory operation and written descriptions of completed experiments.

Subject Description: The student will be required to design and construct several self-contained experiments at the level of those encountered in Advanced Experimental Physics. OR After successfully completing this subject, the student will: have gained experience in contributing to the work of a small research group; be able to keep detailed working records of the progress of experiments; have gained a variety of intermediate practical and analytical level skills related to the specific area of research in which they have been involved; be able to present a short seminar on the research in which they were engaged.

PHYS990 Applied Physics Project

Credit Points: 24

Not on offer in 2005

Assessment: Minor Thesis

Subject Description: The student will undertake a research project and present a minor thesis and seminar on an applied physics topic selected after discussion with the Department Head.

PHYS997 Special Topic in Physics B

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 6P

Assessment: Project work and Seminar

Subject Description: A special topic to be selected from any area of physics. The selection to be made by the Physics Academic Adviser.

HEALTH & BEHAVIOURAL SCIENCES SUBJECT DESCRIPTIONS

GHMA906 Research Projects

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus
Annual	Wollongong	On Campus
Spring2005/		
Autumn2006	Wollongong	On Campus

Credit Points: 8**Contact Hours:** 5 hrs per week minimum**Assessment:** Research report and/or performance

Subject Description: A research project designed to develop an understanding of the scientific process through the experience of research. Students will design, propose, conduct, analyse, interpret and then present the results of a research project which can be related to the topic of their Major Thesis.

GHMA909 Practicum

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus
Annual	Wollongong	On Campus

Credit Points: 8**Contact Hours:** 5hrs per week minimum

Assessment: Report, Seminars, or Research Performance to be approved by the supervisor.

Subject Description: A subject which introduces students to their supervisor's laboratory and allows for the development of technical skills and procedures critical to the success of their Major Project. If the student is undertaking a non-laboratory based thesis, another relevant subject may be substituted for GHMA909 with the approval of the Head of Department.

GHMA913 Special Topics

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus
Annual	Wollongong	On Campus

Credit Points: 8**Contact Hours:** 5hrs per week minimum

Assessment: Literature critique or other approved assessable task in specified research area.

Subject Description: A subject which develops the students' ability to examine, access, interpret and evaluate primary and secondary source research data and ideas. Students will write an extensive critical review of the literature or other approved area of research related to their Major Thesis.

GHMA920 Behavioural Change: Human Factors in OH&S

Autumn	Wollongong	On Campus
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Credit Points: 6**Contact Hours:** Autumn 3 hrs lectures per week

Assessment: Reflective Journal 20%; 2 x Assignments worth 25% each (total 50%); Seminar Presentation 15% and Report 15% (total 30%)

Subject Description: Introduces the concept of the Accident Phenomenon and how individual behaviour relates. Behavioural modification techniques will be examined and

demonstrated by experienced practitioners. The students should gain skills in behavioural identification, understanding activators and promoting effective behaviour in OH&S. Students will research behavioural aspects of major accidents so as to develop programs that influence behaviour at work.

GHMA921 Workplace Injury Management

Autumn	Wollongong	On Campus
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Credit Points: 6**Contact Hours:** Autumn 3 hrs lectures per week

Assessment: Reflective Journal 20%; Seminar Presentation 15% and Report 15% (total 30%); Assignment 20%; Final Exam 30% (must pass exam to pass the subject as a whole)

Subject Description: Topics include the history and development of occupational health and safety, legislation, accident investigation, workplace injury management, and roles and responsibilities, functions and activities.

GHMA922 Occupational Hygiene and Toxicology

Spring	Wollongong	On Campus
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Credit Points: 6**Contact Hours:** Spring 3 hrs lectures per week

Assessment: Test Paper 10%; 3 x Field Exercise & Reports 20% each (total 60%); Final Exam 30% (must pass exam to pass subject as a whole)

Subject Description: Introduces the fundamental of basic anatomy and toxicology, routes of entry into the human body, target organs, dose effect, threshold values and mechanisms of disease. Workplace exposure standards will be explored and the Hierarchy of Control to eliminate the hazard or reduce the level risk associated with exposure. Techniques for measuring dusts, gases, vapours, microbiological hazards and physical agents will be explored with practical demonstrations held.

GHMA923 OH&S Risk Management

Spring	Wollongong	On Campus
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Credit Points: 6**Contact Hours:** Spring 2 hrs lectures per week

Assessment: Seminar Presentation 15% and Report 15% (total 30%); 2 x Field Exercises & Reports 20% each (total 40%); Assignment 30%

Subject Description: This subject will explore the nature of risk, hazard identification, risk assessment and control. Suitable tools such as Hazpac and Job Safety Analysis and risk modeling techniques such as HAZOP, HAZAN, QRA and PHA will be introduced to allow for the prediction of risk and the development of risk management strategies.

GHMA925 Manual Handling

Spring	Wollongong	On Campus
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Credit Points: 6**Contact Hours:** Spring 3 hrs Lectures**Pre-requisites:** GHMA923**Co-requisites:** Nil

Assessment: Biomechanics Lab Report (20%); Class Test

(10%); Report (40%); Presentation (10%), Report (20%)

Subject Description: Manual Handling remains the most common mechanism of workplace injury in New South Wales, accounting for \$226.2 million in cost, and almost 127,000 weeks in lost time during the 1998/9 period (Workcover Annual Report 1998/9). The rate of manual handling injuries remains constant, and as such, continues to be one of the major areas of focus for Occupational Health and Safety professionals. This course should provide students with the knowledge and skills to identify, assess, control and monitor a range of manual handling risks in the occupational setting. In addition, training strategies for manual handling will be explored.

GHMA926 Conducting Workplace Assessments

Summer 05/06 Wollongong On Campus

Credit Points: 6

Contact Hours: Summer 2005/2006 3 days/week over 2 weeks during summer session

Pre-requisites: GHMA921

Co-requisites: Nil

Assessment: Class Test (10%); Assignment (10%); Report and Presentation (20%); Class Report (20%); Placement Report and Presentation (40%).

Subject Description: This course should enable students to conduct workplace assessments in a variety of settings. An overview of the process of injury management will provide students with the context and rationale for assessment. Students should gain practical skills and experience in workplace assessment through the use of case studies and industry placements, with the emphasis on effective injury management - maintaining an injured worker in the workplace through appropriate workplace assessment, reducing the risk of re-injury, and promoting the return to full duties.

GHMA929 Exercise Psychology and Dietary Counselling

Autumn Wollongong On Campus

Credit Points: 8

Contact Hours: Autumn 4hrs Lectures/Seminars per week

Co-requisites: GHMA934 or BND434

Exclusions: GHMA933 OR BND 433 OR PSYC216

Assessment: Counselling Practical Assessment 40%; Class Quiz 10%; Field Project Assignment Completed in Psychology Department 50%

Subject Description: The subject will combine an understanding of the central features of sports psychology with basic skills in dietary counselling and small group education in the context of diet and exercise. Students will study personality and situational factors influencing participation in sport, and cognitive and behavioural influences on the promotion of healthy lifestyles. They will counsel individuals in dietary change and conduct small group education programs for community members.

GHMA930 Community and Public Health Nutrition

Autumn Wollongong On Campus

Credit Points: 8

Contact Hours: Autumn 2hrs Lectures/Seminars per week

Exclusions: BMS310 OR GHMD936 OR SFC902

Assessment: Activity Journal 30%; Essay 20%; Case Study

50%

Subject Description: Key areas of community and public health nutrition include nutrition surveillance, food policy, program planning and health promotion. There will be a focus on community nutrition practice, covering such topics as maternal and infant nutrition, school based nutrition programs, diabetes education and the health of older people in the community. Submission of some assignment work via WebCT.

GHMA931 Nutrients and Metabolism

Autumn Wollongong On Campus

Credit Points: 8

Contact Hours: Autumn 4hrs Lectures, 2hrs Practicals per week

Exclusions: BMS311

Assessment: Examination 30%, Practical Assessment 40%, Presentations 10%; Reports 20%

Subject Description: This subject covers the need for nutrients and how the human body metabolises these nutrients. It begins with basic concepts such as bioavailability of nutrients from food. It then focuses on specific nutrients, namely carbohydrates, folate, plant sterols, phytoestrogens and fats, of which there is no recommended dietary intake (RDI). The overall aims are 1) to understand the relationships between intake of nutrients and health status, and 2) to develop an appreciation for the development of an RDI for a nutrient. Please note that this is a core subject for all of the University of Wollongong's nutrition degrees and hence it is tailored for nutrition students.

GHMA932 Research in Human Nutrition

Annual Wollongong On Campus

Autumn Wollongong On Campus

Credit Points: 8

Contact Hours: Annual 8 x 4 hr workshops, Autumn 8 x 4 hr workshops

Exclusions: BMS312

Assessment: Literature review 20%; Scientific report 40%; Presentation of proposal 20%; Research proposal 20%

Subject Description: The subject will introduce students to a range of key areas of research in human nutrition. Beginning with an overview of nutrition research and the development of literature reviews, topics will include diet intake methodology, the use of nutrient databases, biomedical assays and indicators, epidemiological and ethnographic approaches as they relate to nutrition.

GHMA933 Communication in Healthcare Practice

Autumn Wollongong On Campus

Credit Points: 8

Contact Hours: Autumn 4hrs Lectures/Seminars per week

Co-requisites: GHMA934 OR BND434

Exclusions: BND433, GHMA929

Assessment: Assessment in Small Group 35%; Assessment in Counselling 35%; Assessment in Team Activities and Reflective Learning 20%; Quiz 10%

Subject Description: The subject will introduce you to the theory and practice of communication in the professional work environment, emphasising successful communication in a range of contexts. These include client counselling, small

group education, community consultation, participation in meetings, working with the media and conflict resolution. In order to promote teamwork and group skills, the subject is taught on a small group basis, and you should prepare for each activity. In order to promote an understanding of how people learn in small groups, you are asked to keep a reflective journal and to critique the process at the completion of the subject.

GHMA934 Dietetics

Autumn Wollongong On Campus

Credit Points: 8

Contact Hours: Autumn 6hrs Lectures/Seminars per week

Pre-requisites: GHMA931 and GHMA932

Co-requisites: GHMA930

Exclusions: BND434

Assessment: Ready Reckoner Assignment 14%; Case Studies 36%; Final Exam 50%

Subject Description: Dietetics concerns the manipulation of food and dietary data with the aim of supporting nutritional health. This subject focuses attention on the nutritional needs of individuals, in clinical and community health settings, where nutritional intervention will improve or support the quality of life. This subject will draw upon much of your undergraduate and postgraduate studies. In particular you should revise your understanding of nutrition through the life cycle, human physiology and metabolic biochemistry.

GHMA935 Food Service and Dietetics Management

Autumn Wollongong On Campus

Credit Points: 8

Contact Hours: Autumn 5hrs Lectures/Practicals/Seminars p/week

Pre-requisites: GHMA930 or GHMA931 or GHMA932

Exclusions: BND435

Assessment: Menu Planning Assignment 25%; Multiple Choice Quiz 10%; Group Consultancy 25%; Management Assignment 15%; TAFE Assignments 25%

Subject Description: The subject is an introduction to the management of food service operations and hospital dietetic departments. It will focus on the development of small and large scale cooking skills, menu planning and standard recipe manipulation in keeping with dietetic modifications. It will also develop the necessary skills and knowledge base to assist in and/or manage the provision of meals via an institutional food service. Aspects of organisational design, leadership, motivation, negotiation, resource management, decision making and power will be explored.

GHMA937 Practical Studies in Nutrition and Dietetics

Spring Wollongong On Campus

Autumn Wollongong On Campus

Annual Wollongong On Campus

Spring2005/

Autumn2006 Wollongong On Campus

Credit Points: 24

Contact Hours: 16 weeks full time practical placement

Pre-requisites: GHMA934 and GHMA935; GHMA933 or GHMA929

Exclusions: BND437

Assessment: 100% practical experience. Grade of Satisfactory or Unsatisfactory given.

Subject Description: This subject comprises a practicum of at least 16 weeks duration which is spent in hospitals, community health centres, and other food-related organisations. Students will be under the supervision of experienced practitioners appropriate to the placement requirements. This placement is designed to develop the students' skills and competencies in a range of areas including specialised therapeutic diets and the provision of community nutrition programs. It also provides the students with opportunities to rehearse and demonstrate both interviewing and counselling skills, as well as information and behaviours required to allow the Dietitian to operate as an independent professional. Awareness of, and behaviours consistent with the knowledge of ethics requirements, confidentiality, accountability and other responsibilities of the autonomous professional operating either independently or as a member of a multidisciplinary team should be demonstrated by the student.

GHMA951 Exercise Rehabilitation I: Musculoskeletal

Autumn Wollongong On Campus

Credit Points: 8

Contact Hours: Autumn 2hrs Lectures, 3hrs Practicals per week

Pre-requisites: BMS203 and BEXS351

Exclusions: BEXS451

Assessment: Assessment Assignment 25%, Interview exam 25%, Exercise Rehabilitation Programme 15%; Clinical Exam 35%

Subject Description: This subject extends the study of exercise rehabilitation providing revision related to the structure and function of major joints and introduces common pathologies - mechanisms and outcomes. The subject covers information related to evaluation of the injured site and the design and management of appropriate exercise rehabilitative techniques designed to improve functional capabilities and prevent reinjury. It is essential for students undertaking this subject to have excellent knowledge in Functional Musculoskeletal Anatomy and Exercise Physiology and Prescription. Students without this requisite knowledge will have difficulty completing this subject.

GHMA952 Exercise Rehabilitation II: Cardiorespiratory and Neurological

Autumn Wollongong On Campus

Credit Points: 8

Contact Hours: Autumn 2hrs Lect, 3hrs Prac per week

Pre-requisites: BMS344 and BMS346 and BEXS352

Exclusions: BEXS452

Assessment: Theory Examinations (2) 50%; Assignments (4) 50%

Subject Description: This subject investigates the use of exercise as a clinical rehabilitative tool for patients with cardiovascular or neurological pathologies. The subject covers information related to evaluation of the pathology and the design and management of appropriate exercise rehabilitative techniques to improve functional capabilities and enhance quality of life.

GHMA997 Major Project

Spring	Wollongong	On Campus
Autumn	Wollongong	On Campus

Credit Points: 24**Contact Hours:** Spring 6 x 2 hr tutorials, Autumn 6 x 2 hrs Tutorials**Pre-requisites:** Satisfactory prior knowledge of research methods. Consult academic adviser.**Assessment:** Report 80%; Poster 10%; Presentation 10%**Subject Description:** Group or individual research project designed to give students an intensive one session research experience under the guidance of an academic supervisor. By the end of the session students should be able to: 1) Prepare a research proposal; 2) Present proposal in concise manner; 3) Prepare scientific report on research; 4) Present report at a research seminar; 5) Develop a poster.**GHMB902 Nursing Management**

Spring	Wollongong	On Campus
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Credit Points: 6**Contact Hours:** Spring Study Days – Refer to Department**Subject Description:** The basic concept of nursing administration at the ward, middle management, and at senior levels will be introduced. Differences in management style, ward design and its impact on care delivery, nursing care delivery assignments, and nursing involvement in the public and private sector will be examined.**GHMB903 Scientific and Qualitative Developments in Acute Care Nursing**

Spring	Wollongong	On Campus
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Credit Points: 6**Contact Hours:** Spring Study Days – Refer to Department**Subject Description:** Investigates technological, biological, psychological and sociological developments that have created an impact in acute care nursing in recent times. Insights into specific technology and pharmacology used for diagnostic or therapeutic purposes by nurses and the Health team will be targeted, including their characteristics, uses and efficacies within an holistic nursing care framework.**GHMB905 Special Topic in Nursing**

Spring	Wollongong	On Campus
Autumn	Wollongong	On Campus

Credit Points: 12**Contact Hours:** Spring Study Days, Autumn Study Days – Refer to Department**Subject Description:** This is a combined program of research and coursework leading to the completion of a minor project. Students will be expected to work closely with a supervisor on a project where a common interest exists.**GHMB906 Acute Care Nursing: Reflections on Practice**

Autumn	Wollongong	On Campus
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Credit Points: 6**Contact Hours:** Autumn Study Days – Refer to Department**Subject Description:** Focuses on relevant theories, themes and issues that have a practical bearing upon acute care

nursing, and on models of acute care nursing that address evidence based practice. Practical aspects include pathophysiology of the Cardiovascular, Respiratory, Nervous and Alimentary systems and Acid Base balance; and Introduction to Electrocardiograph Interpretation.

GHMB907 Fundamental Concepts in Developmental Disability

Autumn	Wollongong	Flexible
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Credit Points: 6**Contact Hours:** Autumn Average of three hours per week**Subject Description:** Provides the basic scientific knowledge on which developmental disability practice is based. Emphasis upon the student gaining sound understanding of the nature of developmental disability within a broad social context. The body of knowledge which defines and identifies the nature of the group and the philosophical, ethical and legal foundations for practice will be addressed in this course.**GHMB908 Applied Behavioural Science for Developmental Disability Practice**

Spring	Wollongong	Flexible
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Credit Points: 6**Contact Hours:** Spring Average of three hours per week**Pre-requisites:** GHMB907 Fundamental Concepts in Developmental Disability**Subject Description:** Developmental disability practice makes extensive use of such skills and roles as assessment, programming, teaching, behaviour management and supportive counselling. To use these skills effectively, the student requires a knowledge of selected principles drawn from the behavioural sciences. This subject will provide the necessary theoretical framework, together with an emphasis on practical application and problem-solving skills.**GHMB910 Contemporary Issues in Developmental Disability**

Spring	Wollongong	Flexible
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Credit Points: 6**Contact Hours:** Spring Average of three hours per week**Pre-requisites:** GHMB907 Fundamental Concepts in Developmental Disability**Subject Description:** It is vitally important that practitioners in the field of developmental disability are willing to critically assess current practice and to objectively consider other service options. There are also a number of controversial issues in relation to the rights and responsibilities of people with developmental disabilities that must be addressed. This course will require independent and thoughtful analysis of such issues and critical assessment of current practice.**GHMB911 Midwifery Practice 1**

Autumn	Wollongong	On Campus
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Credit Points: 4**Contact Hours:** Refer to Faculty**Pre-requisites:** GHMB916 (Part-time students)**Co-requisites:** GHMB914, GHMB916, GHMB923 (Full-time students)**Assessment:** Longitudinal Case Study - Models of Care (75%); Mastery of Viva appropriate to area of clinical practice

(25%); satisfactory progress of Clinical Competence Profile (a minimum of 30% of the clinical requirements for the designated clinical areas will be successfully completed).

Subject Description: This subject is the first of three subjects that allows the student to acquire the necessary clinical experiences as designated by the Nurses Registration Board of NSW. Midwifery Practice 1 is designed to introduce the student in the provision of care of the woman and her family throughout pregnancy, parturition and the puerperium. Special emphasis is on the well woman, pregnancy, foetus, parturition, puerperium and the neonate. Potential complications during childbearing and management of high-risk women are examined. There will be an emphasis on evidence-based practice, critical appraisal and professional issues for midwives. The practical application of different models of care is also explored. Clinical practice will consist of the experiences suggested by the Nurses Registration Board of NSW. As required by the Nurses Registration Board of NSW, students should complete Midwifery Practice 1, 2 and 3 in a time period not exceeding four consecutive academic semesters.

GHMB912 Midwifery Practice 2

Spring Wollongong On Campus

Credit Points: 4

Contact Hours: Refer to Faculty

Pre-requisites: GHMB911, GHMB914, GHMB916

Co-requisites: GHMB915

Assessment: Longitudinal Case Study - Discussion based on current evidence (50%); 2 x Mastery of Viva appropriate to area of clinical practice (50%); satisfactory progress of Clinical Competence Profile (a minimum of 70% of the clinical requirements for the designated clinical areas will be successfully completed).

Subject Description: This subject is the second of three subjects that allows the student to acquire the necessary clinical experiences as designated by the Nurses Registration Board of NSW. The student progresses along a continuum, developing and consolidating skills and knowledge in the provision of care of the woman and her family learnt in the first clinical rotation.

GHMB913 Midwifery Practice 3

Summer 05/06 Wollongong On Campus

Credit Points: 4

Contact Hours: Refer to Faculty

Pre-requisites: GHMB912, GHMB915

Assessment: Longitudinal Case Study - 30 minute presentation (25%); Longitudinal Case Study - Reflection on Continuity of Care (50%); Mastery of Viva appropriate to area of clinical practice (25%); satisfactory progress of Clinical Competence Profile (100% of the clinical requirements for the designated clinical areas will be successfully completed.)

Subject Description: This subject is the third of three subjects that allows the student to acquire the necessary clinical experiences as designated by the Nurses Registration Board of NSW. Midwifery Practice 3 is designed for the student to continue, and finally complete, the provision of care of the woman and her family and to build on skills acquired whilst undertaking Midwifery Practice 1 and 2.

GHMB914 Midwifery Management 1

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Refer to Faculty

Pre-requisites: GHMB916 (Part-time students)

Co-requisites: GHMB911, GHMB916, GHMB923 (Full-time students)

Assessment: Critical Analysis of Papers (20%), Essay (40%), Examination (40%).

Subject Description: This subject is designed to be taken in conjunction with the clinical subject, GHMB911 Midwifery Practice 1. The subject provides the theoretical framework for the student to function as a safe beginning midwifery student caring for women throughout the antenatal and intrapartum period. An ability to review literature is an essential component of this subject. Students are expected to facilitate their own learning by utilising the Library Database Workshops and the IT services available at the University. They are expected to achieve a high level of learning that is evidenced by the quality of analysis, synthesis and evaluation of evidence based research and its application to midwifery practice.

GHMB915 Midwifery Management 2

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Refer to Faculty

Pre-requisites: GHMB911, GHMB914, GHMB916, GHMB923

Co-requisites: GHMB912, GHMB917

Assessment: Tutorial Presentation(20%), Essay (40%), Examination (40%).

Subject Description: This subject is designed to be taken in conjunction with the clinical subject, GHMB912 Midwifery Practice 2. Midwifery Management 2 is designed for the student to continue to learn and understand the theoretical midwifery framework underpinning midwifery practice. This subject continues the theoretical component relating to intrapartum, maternal, postnatal and neonatal care for the well mother and healthy baby. Potential complications will then be examined. An ability to review literature remains an integral component of this subject. Students are expected to continue to facilitate their own learning by utilising the Library Database Workshops and the IT services available at the University. They are expected to demonstrate a high level of learning that is evidenced by the quality of analysis, synthesis and evaluation of evidence based research and its application to midwifery practice.

GHMB916 Human Reproduction

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Autumn 2 hrs lect, 1 hr tut/lab

Pre-requisites: Nil

Co-requisites: Nil

Assessment: Minor Essay (25%), Major Essay (30%), Examination (45%).

Subject Description: This course is designed to provide students with advanced knowledge of anatomy and physiology related to conception, pregnancy and parturition. Biochemical, nutritional, and genetic influences on conception and embryonic, foetal, neonatal development and maternal responses will be addressed. Technology used in

assessment, diagnosis and intervention at all stages of the reproductive process will be explained in terms of scientific principles. The knowledge gained from this course provides midwives with an important component of a scientific knowledge base from which to plan and provide midwifery practice for their clients.

GHMB917 Midwifery in the Social Context

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Spring 2 hrs lect, 1 hr tut

Pre-requisites: Nil

Co-requisites: Nil

Assessment: Tutorial Presentation (30%), Minor Essay (30%), Major Essay (40%).

Subject Description: This subject will provide the student with an in depth knowledge of theory and research, on psychological, sociological and cultural influences throughout the period of pregnancy, childbirth, and parenting. Evidenced based research, and knowledge of national guidelines and community resources are utilised to equip the student to assist the contemporary family throughout this transition to parenthood. Students are challenged to explore their own values and belief systems. They are encouraged to develop an appreciation for cultural and social diversity and differing perspectives they encounter in the clinical setting. Advocacy for womens' choices and development of the midwifery profession is also explored. The implications of the content of this subject is to reiterate the primary health care role of the midwife.

GHMB923 Legal and Professional Issues

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Autumn 3 hrs per week

Assessment: Combination of seminar presentation and written assessment.

Subject Description: This subject is designed to provide students with a knowledge of legal and professional issues in relation to their area of clinical practice. Relevant Australian legislation, appropriate case law and examples of moral reasoning will be used to provide a framework for clinical decision-making.

GHMB927 An Introduction to Human Anatomy and Physiology

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Autumn 4 Lect, 3 Lab, per week

Subject Description: This subject is designed to give the student an understanding of the structure and functioning of the human body. As this is a course designed for non-medical health professionals the major emphasis is on physiology rather than anatomy. All the organ systems of the human body are studied and appropriate links are made with both pathophysiology and human development. The laboratory sessions form an integral part of the course, expanding on and complementing the lectures. They allow time for more in-depth study of structure and illustrate functioning through a series of carefully designed experimental procedures.

GHMB932 Principles and Practices of Psychosocial Rehabilitation

Autumn Wollongong Flexible

Credit Points: 6

Contact Hours: Refer to Department of Nursing

Assessment: One assignment 20%, one assignment 30%, one assignment 50%.

Subject Description: This subject provides students with a contemporary framework for understanding the rehabilitation and recovery process for people with a mental illness. It provides students with a set of knowledge and skills that can be applied in a range of contexts including case management and psychosocial rehabilitation services in both government and non-government sectors located in metropolitan, rural and remote areas. The subject examines theoretical and empirical issues associated with change enhancement, needs identification, collaborative goal setting, and collaborative task setting and monitoring outcomes. The skills component focuses on an understanding of the relationship between the clinician and the consumer (working alliance) and the process of recovery from mental illness undertaken by an individual consumer.

GHMB933 Comprehensive Systems of Mental Health Care

Credit Points: 6

Not on offer in 2005

Assessment: A variety of methods including service review, case reports, and essays.

Subject Description: This subject provides an overview of basic theoretical models used to explain psychiatric disorder and presents a historical overview of mental health services. It examines the impact of the National Mental Health Strategy on the development of an integrated, comprehensive mental health service. Students are provided with an understanding of each component of a community service network, including the role and function of crisis intervention services, residential services, hospital based services, and multidisciplinary mental health structures. The role of consumer and carer advocacy organisations is examined.

GHMB934 Assessment and Diagnosis in Mental Health

Autumn Wollongong Flexible

Credit Points: 6

Contact Hours: Refer to Department of Nursing

Assessment: Two case vignettes 15% each, literature review 20%, clinical study 50%.

Subject Description: This subject examines the definitions and classification systems widely used to identify, describe and communicate about mental illness. The history and philosophical models which underpin DSM IV and ICD 10 are examined and analysed. The approaches and methods of assessment are outlined and subjected to analysis, including the assessment interview, the psychiatric history, symptom descriptions, functional assessment and family assessment. Ongoing assessment, uses and abuses of diagnosis, uses of assessment for management and research and ethics of assessment are also considered.

GHMB935 Case Management in Mental Health

Spring Wollongong Flexible

Credit Points: 6**Contact Hours:** Refer to Department of Nursing**Assessment:** Essay 40%, literature review 20%, case study 40%.

Subject Description: This subject provides an overview of the application of different models of case management in the context of mental health. It addresses both the evidence-base for case management and the question of who should be case managed. The principles and practices of clinical case management are examined in detail with a focus on the skills required of case managers in working with the client, carers and the broader social environment.

GHMB936 Supervised Clinical Practice**Credit Points:** 6**Not on offer in 2005**

Subject Description: A range of clinical placement opportunities are available within Mental Health Services. However, before enrolling in this subject students must negotiate details of their proposed placement with the course coordinator and nominated clinical supervisor. Students must develop and submit an outline of the program including a description of the nature of the clinical work, specific competencies to be developed, and how the development of competencies will be monitored and evaluated by the clinical supervisor.

GHMB940 Indigenous Family Studies

Autumn Wollongong Distance

Credit Points: 6**Contact Hours:** Refer to Faculty**Assessment:** Essay 30%, Powerpoint Presentation 30%, Major Essay 40%.

Subject Description: This subject introduces you to Indigenous perspectives of relationships between individuals, families and community. The intricacies of kinship patterns, marriage and gender roles of the family will be explored. Impacting on this are the external socio-cultural family dynamics. The emerging and changing role of Indigenous women in family and community matters will be articulated. The links with country and relationship between land, law, cultural survival and their significance in relation to the family (re)construction will be explored.

GHMB941 Indigenous Health Patterns

Spring Wollongong Distance

Credit Points: 6**Contact Hours:** Refer to Faculty**Assessment:** Essay 40%, PowerPoint Presentation and Paper 30%, Media Journal 30%.

Subject Description: The aim of this subject is to examine the relationships between mainstream/western approaches to health care provisions and Indigenous Australia approaches to health care provision.

GHMB942 Special Topic

Autumn Wollongong Distance

Spring Wollongong Distance

Credit Points: 12**Contact Hours:** Refer to Faculty**Pre-requisites:** GHMB940 and/or GHMB941 and/or GHMB943 and/or GHMB944

Subject Description: This subject is designed for students to develop a proposal for a research study towards a Master of Indigenous Health, and for non research students wishing to complete a minor project in a specific content area. The research students will be supervised by a lecturer who has expertise in research and chosen the field of study. The techniques of study will include library searches, an oral presentation of the proposal, and a written proposal. For non-research students the content will reflect the content area of the specified topic being studied under a supervisor. The techniques of study will include library, an oral presentation of the proposal, and a written minor project.

GHMB943 Health and Human Ecology

Autumn Wollongong Distance

Credit Points: 6**Contact Hours:** Refer to Faculty**Assessment:** Essay 30%, PowerPoint Presentation 30%, Media Journal 40%.

Subject Description: This subject provides an overview of and an opportunity for discourse on key factors to be considered in environment, health and planning for urban, rural and remote Indigenous communities. There is a focus on the requirements of public health policy and legislation. There is also a critical interrogation of the relationship between the environment and issues of public and community health. Issues such as research, environmental racism, health settings, access to public health facilities and population stresses will be examined in the light of their impact on allocation of health resources and service delivery.

GHMB944 Community Resource Planning

Spring Wollongong Distance

Credit Points: 6**Contact Hours:** Refer to Faculty**Assessment:** Essay 35%, PowerPoint Presentation and Paper 30%, health promotion program 35%.

Subject Description: This subject will provide students with an opportunity to identify, develop and evaluate practical applications of health promotion in communities. The subject addresses the principles and theory of health promotion within a community development framework. Some of the principles that guide education for health and planning education sessions within an Indigenous community context are also discussed.

GHMB945 Contemporary Indigenous Health Issues**Credit Points:** 6**Not on offer in 2005**

Subject Description: This subject examines health issues of importance to Aboriginal families from a historical perspective. The impact of changing policy directions upon health service provision and morbidity and mortality is also examined.

GHMB946 Functional Community Structures**Credit Points:** 6**Not on offer in 2005**

Subject Description: This subject focuses on needs assessment techniques. Involves the analysis and planning of local program development, relevant health promotion strategies and program evaluation.

GHMB950 Reflective Practice 1

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** Autumn 3 per week, Spring 3 per week

Subject Description: This Reflective Practice subject develops (or enhances existing) personal conceptual frameworks and skills of reflectivity applicable to practice, so as to enable participants to 'stand back' from situations, to see the 'whole of the moon' rather than just 'the crescent'. The subject promotes reflection upon theory and research which underpins practice, so as to enable participants to identify potential areas for practice development and meaningful research.

GHMB951 Reflective Practice 2

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** Autumn 3 per week, Spring 3 per week**Pre-requisites:** GHMB950

Subject Description: This subject will build on the objectives for GHMB950 (its pre-requisite) in that it will enable students to further develop skills in writing literature reviews, as the rhetoric of literature searching and analysis. The particular focus of how these skills are utilised will be very much the domain of the student. He/she will be able to decide whether they wish to develop skills of: sustaining argument(s) through an extended piece of written work; writing for publication; or developing an evidence base for planned innovation. There will also be an opportunity for students to consider skills related to framing research questions and writing research proposals from the basis of their reflections on practice.

GHMB953 Special Topic in Nursing

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** Refer to Faculty**Pre-requisites:** GHMB950

Subject Description: This subject is designed for students to develop a proposal for a research study towards a Master of Nursing - Research, and for non research students wishing to complete a minor project in a specific content area. The research students will be supervised by a lecturer who has expertise in research and chosen the field of study. The techniques of study will include library searches, an oral presentation of the proposal, and a written proposal. For non-research students the content will reflect the content area of the specified topic being studied under a supervisor. The techniques of study will include library, an oral presentation of the proposal, and a written minor project.

GHMB954 Studies in Alcohol and Other Drugs

Autumn Wollongong

Flexible

Credit Points: 6**Contact Hours:** Autumn 2 hrs per week Lects, 2 x 4 hrs skill-based workshop/tutorials**Pre-requisites:** Nil**Co-requisites:** Nil**Assessment:** Essay 30%, Essay 50%, Skill-based tutorial activities 20%

Subject Description: This subject will provide an understanding of the pharmacological, psychological and sociological basis of alcohol and other drug (AOD) use and dependence. It will focus on government, intersectoral and community approaches to inform, minimise and treat the harm caused by the use of alcohol and other drugs. Contemporary issues, perspectives and approaches, which impact on both national and global policies, will be explored.

GHMB989 Mental Health Nursing: Clinical Principles and Practice

Spring2005/

Autumn2006 Wollongong Flexible

Annual Wollongong Flexible

Credit Points: 12**Contact Hours:** Refer to Department of Nursing

Subject Description: Students will combine theoretical underpinnings of mental health with a supervised clinical practice that will provide the opportunity to develop and refine clinical skills and interventions for people seriously affected by mental illness. Requirements for the clinical practice component will be based on best practice guidelines and students will utilise a reflective model to identify areas of professional development.

GHMB997 Major Project

Spring Wollongong On Campus

Autumn Wollongong On Campus

Annual Wollongong On Campus

Credit Points: 24**Contact Hours:** Refer to Faculty**Assessment:** Major Project

Subject Description: This is a combined program of research and coursework leading to the completion of a major project. Students will be expected to work closely with a supervisor on a project where a common interest exists.

GHMB998 Minor Thesis

Spring Wollongong On Campus

Autumn Wollongong On Campus

Annual Wollongong On Campus

Credit Points: 24**Contact Hours:** Refer to Faculty**Assessment:** Minor Thesis

Subject Description: This is a major component of a combined coursework/thesis program in the Masters of Nursing undertaken by candidates enrolled in the Department of Nursing. A thesis must be submitted and assessed according to the Course Rules for Masters Candidates. Thesis work is only commenced with the approval from the co-ordinator of the subject and the Head of the Nursing

Department. Students will be required to present a seminar on their chosen thesis topic prior to completion of the thesis.

GHMC908 Professional Issues in Psychology

Autumn Wollongong On Campus

Credit Points: 4

Contact Hours: Autumn 3 hrs block mode

Pre-requisites: None

Assessment: Class presentation (25%), Test (25%), Final Exam (50%)

Subject Description: Focuses on ethical and legal issues relevant to clinical psychologists. Other areas of professional practice covered include: communication, the NSW Mental Health Act, supervision, quality assurance and burn-out and self care.

GHMC910 Child and Family Psychology

Autumn Wollongong On Campus

Credit Points: 4

Contact Hours: 1.5 hrs seminar

Pre-requisites: None

Assessment: Reports on video observations, in class exam, report on child.

Subject Description: The subject examines a range of common childhood issues and focuses on the nature of intervention within the context of typical and atypical child development from a Scientist practitioner framework. Topics will include work with children, parents and families concerned with emotional and behavioural disorders, learning difficulties, ADHD problems, anxiety disorders, and depression.

GHMC914 Thesis

Annual Wollongong On Campus

Credit Points: 48

Contact Hours: Annual

Pre-requisites: None

Subject Description: Thesis for the Doctor of Psychology (Clinical). This subject, in conjunction with Research Project A and Research Project C, comprises the research component of the DPsych degree.

GHMC919 Clinical Applications of Health Psychology

Autumn Wollongong On Campus

Credit Points: 4

Contact Hours: Autumn 1.5 hrs seminar

Pre-requisites: None

Assessment: Class presentation 25%, in class test 30%, case study treatment plan 45%

Subject Description: This subject examines models of intervention for individual, groups and larger populations. The origins of stress, coping, issues with pain management and disability as well as an understanding of the conceptual models of behaviour change in health related areas are examined within a health and well being focus as well as from an illness perspective. Focus will be on applications where a clinical psychologist in practice may be active, including pain, cancer, cardiovascular disease and living with chronic and terminal illness, drug and alcohol problems and individual and

population interventions.

GHMC920 Psychotherapy of Personality Disorders

Annual Wollongong On Campus

Credit Points: 8

Contact Hours: Refer to Faculty

Pre-requisites: None

Assessment: Refer to Faculty

Subject Description: This subject focuses on advanced training in the treatment of personality disorders and complex cases. Classification, aetiology, and treatment models and methods will be addressed through workshops and clinical presentations. Satisfactory completion of a 250-hour supervised practicum training with clients in personality disorders or equivalent area is required as part of this subject. The primary focus will be on conducting evidence-based practice for enhancing a client's interpersonal effectiveness, emotion regulation, and distress tolerance. Training will emphasise developing skills to deal with therapeutic stalemates, comorbid psychopathology, self-harm behaviours, acute crises, and building effective therapy teams.

GHMC921 Clinical Supervision and Practice

Annual Wollongong On Campus

Credit Points: 4

Contact Hours: Refer to Faculty

Pre-requisites: None

Assessment: Psychological test reports and exam.

Subject Description: This subject focuses on knowledge and skills required of an advanced professional. The clinical supervision component will cover theories and models of clinical supervision, and the rationale, procedures, and best-practice guidelines regarding formulating supervision plans, assessing supervisee performance and evaluating supervision programs. The advanced practice unit is designed for participants to understand, examine and critically evaluate professional and nonprofessional management of a chronic psychological disorder. In addition to didactic teaching, skills training methods (e.g., role-play, videotapes) will be used. This subject will also include a 250-hour clinical practicum within an advanced professional or clinical supervision area.

GHMC926 Counselling Skills

Autumn Wollongong On Campus

Credit Points: 4

Contact Hours: 1.5 hrs seminar

Pre-requisites: None

Assessment: Transcript analysis, video/audio tape evaluation of applied counselling skills and participation.

Subject Description: The subject focuses on the development of counselling skills from a client-centred and cognitive behavioural therapy (CBT) perspective. A workshop format involving roleplay, observation, feedback and discussion will be used. The subject will examine concepts and procedures of cognitive therapy, and its application to a range of problems.

GHMC931 Clinical Neuropsychology

Autumn Wollongong On Campus

Credit Points: 4**Contact Hours:** 2 hrs lecture and Laboratory**Pre-requisites:** None**Assessment:** Seminar presentation, assignments, examinations.**Subject Description:** This subject aims to introduce students to neuroanatomy and theories of neuropsychological assessment and approaches to rehabilitation. The subject will deal with: basic brain anatomy; principles of neuropsychological assessment; administration and interpretation of neuropsychological tests; neuropsychological report writing; neuropsychological disorders.**GHMC932 Sociocultural Aspects of Applied Psychology**

Spring Wollongong On Campus

Credit Points: 4**Contact Hours:** 1.5 hrs seminar**Pre-requisites:** None**Assessment:** Seminar presentations, tests in class.**Subject Description:** This subject deals with the sociocultural nature of, and the various sociocultural influences on, psychological theory and practice. This includes sociocultural influences on psychologists and their values, and the sociocultural factors that affect concepts of the person, and which shape theories and modes of psychological intervention. The subject also deals with the impact of sociocultural factors upon the expectations, attitudes and values of both psychologists and their clients in psychological interventions.**GHMC933 Professional Workshop Series A**

Autumn Wollongong On Campus

Credit Points: 4**Contact Hours:** 26 hrs lect. per year**Pre-requisites:** None**Assessment:** Case work and/or essay based on specified workshops.**Subject Description:** The subject aims to orient students to a wide variety of approaches and skills pertinent to specialised areas in professional psychology, and to develop skills in one or more designated areas. The subject includes a number of workshop sessions relevant to the practice of professional psychology and conducted by qualified persons from both within the university and from external agencies who have expertise in an area of professional practice.**GHMC934 Advanced Professional Workshop****Credit Points:** 4**Not on offer in 2005****Pre-requisites:** None**Assessment:** Case work and/or essay based on specified workshops, final examination.**Subject Description:** The subject aims to orient students to a wide variety of approaches and skills pertinent to specialised areas in professional psychology, and to develop skills in one or more designated areas. The subject includes a number of workshop sessions relevant to the practice of professional

psychology and conducted by qualified persons from both within the University and from external agencies who have expertise in an area of professional practice.

GHMC938 Practicum 1A

Annual Wollongong On Campus

Credit Points: 4**Contact Hours:** Refer to Faculty**Pre-requisites:** None**Assessment:** Assessment and/or therapy reports, field placement notebooks.**Subject Description:** The lecture/demonstration sessions are intended to prepare students for client contact under supervision. The practicum is composed of 150 hours of supervised case-work from the Northfields or other specified clinics, and should include adult and child case-work. The student will be required to attend group and individual supervision sessions as well as have assessment/therapy sessions taped for discussion and feedback.**GHMC939 Introduction to Cognitive Behavioural Therapy**

Autumn Wollongong On Campus

Credit Points: 4**Contact Hours:** 2 hrs seminar**Pre-requisites:** None**Assessment:** Written examination and video of CBT skills.**Subject Description:** The subject aims to provide students with an understanding of the theoretical principles underlying cognitive behavioural therapy (CBT), the theoretical rationale for cognitive-behavioural techniques, an overview of outcome research on and the practical applications of CBT in clinical and non-clinical settings. Preliminary skills with regard to conducting behavioural assessments, relaxation and systematic-desensitisation therapies will be demonstrated.**GHMC942 Practicum 1B**

Spring Wollongong On Campus

Annual Wollongong On Campus

Spring2005/

Summer2005 Wollongong On Campus

Summer2005/

Autumn2006 Wollongong On Campus

Autumn Wollongong On Campus

Spring2005/

Autumn2006 Wollongong On Campus

Credit Points: 4**Contact Hours:** Refer to Faculty**Assessment:** Psychological assessment and/or therapy reports, field placement notebooks, reports from external supervisors.**Subject Description:** The practicum is composed of 300 hours of supervised case-work from the Northfields Clinic and/or an external agency. The student will be required to attend group and individual supervision sessions as well as have assessment/therapy sessions taped for discussion and feedback. The placement may occur with agencies providing either child or adult services, however when considered together with GHMC943 and GHMC944, exposure to a wide range of clinical/applied contexts will be required.

GHMC943 Practicum 2A

Spring	Wollongong	On Campus
Annual	Wollongong	On Campus
Spring2005/ Summer2005	Wollongong	On Campus
Summer2005/ Autumn2006	Wollongong	On Campus
Autumn	Wollongong	On Campus
Spring2005/ Autumn2006	Wollongong	On Campus

Credit Points: 4**Contact Hours:** Refer to Faculty**Pre-requisites:** GHMC938 Practicum 1A

Assessment: Case presentation, field placement notebooks, reports from external supervisors, assessment and/or therapy reports.

Subject Description: The practicum is composed of 300 hours of case-work from the Northfields Clinic and/or external agencies providing psychological services. The student might be required to attend group and individual supervision sessions as well as have assessment/therapy sessions taped for discussion and feedback. The placement may occur with agencies providing either child or adult services, however when considered together with GHMC942 and GHMC944, exposure to a wide range of clinical/applied contexts (specified elsewhere) will be required.

GHMC944 Practicum 2B

Spring	Wollongong	On Campus
Summer 05/06	Wollongong	On Campus
Autumn	Wollongong	On Campus
Annual	Wollongong	On Campus
Spring2005/ Autumn2006	Wollongong	On Campus
Spring2005/ Summer2005	Wollongong	On Campus
Summer2005/ Autumn2006	Wollongong	On Campus

Credit Points: 4**Contact Hours:** Refer to Faculty

Assessment: Psychological assessment and/or therapy reports, field placement notebooks, reports from external supervisors, audio tape of therapy session.

Subject Description: The practicum is composed of 250 hours of case-work from Northfields clinic and/or external agencies. The student might be required to attend group and individual supervision sessions as well as have assessment/therapy sessions taped for discussion and feedback. The placement may occur with agencies providing either child or adult services, however when considered together with GHMC938, and GHMC943, exposure to a wide range of clinical/applied contexts will be required.

GHMC946 Research Project A

Spring	Wollongong	On Campus
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Credit Points: 8**Contact Hours:** Spring 1 hr seminar**Pre-requisites:** None**Assessment:** literature review, thesis

Subject Description: Research Project A aims to equip students with a wide variety of research skills required for professional psychology. The content will begin by covering the conceptual bases, aims, context, sampling, designs, methods of data collection, followed by discussion of principles and procedures governing selection and implementation of data analyses. Ethical issues in conducting research are reviewed. Students will develop skills to evaluate research critically and interpret data. Students will develop and conduct a research project in a relevant area of professional psychology and submit a comprehensive literature review. Students completing the MPpsych program will also complete Research Project B and a project report in the format of a journal article. Students completing the DPpsych program will also complete Research Project C and the Thesis (GHMC914).

GHMC947 Research Project B

Spring	Wollongong	On Campus
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Credit Points: 16**Contact Hours:** Spring 1 hr seminar**Assessment:** Empirical thesis

Subject Description: Research Project B in combination with Research Project A, aims to equip MPpsych (Clinical) students with a wide variety of research skills required for professional psychology. The context will begin by covering the conceptual bases, aims, context, sampling, designs, methods of data collection, followed by discussion of principles and procedures governing selection and implementation of data analyses. Ethical issues in conducting research are reviewed. Students will develop skills to evaluate research critically and interpret data. Students will develop and conduct a research project in a relevant area of professional psychology and submit a comprehensive literature review and a project report in the form of a journal article.

GHMC951 Child and Adult Assessment and Psychopathology

Autumn	Wollongong	On Campus
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Credit Points: 8**Contact Hours:** Refer to Faculty**Pre-requisites:** None**Assessment:** Refer to Faculty

Subject Description: This course focuses on equipping clinical psychology students with theoretical knowledge and practical skills relevant to the assessment and formulation of mental disorders in adults and children. This is achieved through a combination of lectures, workshop activities, independent study, and supervised clinical practice at Northfields Clinic. The clinical-theoretical part of the course will describe models of human cognitive processes such as memory and higher intellectual functioning and the ways in which these functions may become disturbed in people with mental disorders. The assessment and diagnosis components of the course will cover the main diagnostic classificatory systems and psychometric assessment methods relevant to understanding adults and children with psychiatric disorders characterised primarily by depression and anxiety.

GHMC952 Principles of Psychotherapy

Autumn	Wollongong	On Campus
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Credit Points: 8

Contact Hours: Refer to Faculty

Pre-requisites: None

Assessment: Refer to Faculty

Subject Description: This subject provides students with a set of research-based interventions, strategies and skills for conducting psychological therapy for children and adults. The subject examines the microskills of interviewing, goal setting, problem solving, monitoring and reviewing, relationship enhancement, and selection of appropriate interventions depending on client need. Training methods include video feedback and direct observation of clinical skills. The subject provides the principles of empirically-based psychotherapy with children and adults in individual, family and group therapy formats.

GHMC953 Neuropsychology and Neuropsychiatric Disorders

Spring Wollongong On Campus

Credit Points: 8

Contact Hours: Refer to Faculty

Pre-requisites: None

Assessment: Refer to Faculty

Subject Description: This subject will equip students with knowledge of the theoretical and practical issues that impinge on the assessment of children and adults who present with psychotic disorders, severe behavioural problems, and cognitive impairments stemming from primary neurological pathology. This will be achieved through a combination of lectures, workshop activities, independent study, and supervised clinical practice at Northfields Clinic. The subject content related to clinical assessment will include: the main diagnostic and classificatory systems; principles of psychometric assessment; the application of specific tests; and the development of clinical formulations that can be used in treatment. Topics relating to psychopathological theory will include basic neuroanatomy and neuropathology and theoretical and clinical models of psychotic and behavioural disorders in children and adults.

GHMC954 Cognitive Behavioural Therapies

Spring Wollongong On Campus

Credit Points: 8

Contact Hours: Refer to Faculty

Pre-requisites: None

Assessment: Refer to Faculty

Subject Description: The subject aims to provide students with additional knowledge of the principles, procedures, applications, and research associated with psychotherapy for children and adults for a wide range of psychological disorders. Students will also obtain practical skills training in the conduct of therapy. The focus will be on cognitive behavioural therapies. Apart from lectures, training methods will include demonstration of therapy, role-play sessions, use of videotapes, and a minimum of 100 hours of clinical practicum within the Northfields Clinic or other equivalent agency.

GHMC955 Health and Wellbeing

Spring Wollongong On Campus

Credit Points: 8

Contact Hours: Refer to Faculty

Pre-requisites: None

Assessment: Refer to Faculty

Subject Description: This subject examines health psychology, behavioural medicine, psychopharmacology and rehabilitation models of intervention. Stress and coping are examined within individuals, groups and populations. Current evidence based practice of psychopharmacology is also considered. Satisfactory completion of 300 hours of practical training with clients is required as part of this subject. Focus will be on applications where a clinical psychologist in practice may be active, including treating substance dependence, chronic pain, cancer, cardiovascular disease, HIV/AIDS, chronic and terminal illnesses, implementing behavioural interventions for physical activity and dietary change, positive psychology techniques and lifeskills coaching.

GHMC956 Special Groups and Methods

Spring Wollongong On Campus

Credit Points: 8

Contact Hours: Refer to Faculty

Pre-requisites: None

Assessment: Refer to Faculty

Subject Description: While many of the skills obtained in clinical training are ubiquitous, students need to consider the unique needs and considerations of special needs groups and take this into account in their psychological practice. This subject introduces the student to the application of psychological principles to special needs groups and in special situations. In particular, the subject will address needs as they relate to working with older persons, people with developmental disabilities, working in forensic environments and relevant sociocultural considerations. Additional ethical and professional issues that pertain to these groups and situations will be addressed. Successful completion of this subject will also include 300 practicum hours in a relevant clinical placement, supported by appropriate clinical supervision.

GHMC967 Models of the Human Brain and their Applications

Autumn Wollongong On Campus

Credit Points: 8

Contact Hours: Autumn 1 hr seminar

Assessment: Essay, exam, participation

Subject Description: The biophysics of human brain function is the frame of reference for all subject content. It explores a broad range of approaches, including evolutionary and anatomical models of the brain, models of electrical and metabolic brain function, psychological models of the brain, artificial neural networks and artificial intelligence models, the mind/body problem, psychoanalytic and psychotherapy models, brain imaging technologies, application of brain models to psychology, medicine, artificial neural networks and artificial intelligence, and human-computer interactions.

GHMC969 Advanced Cognitive Behavioural Therapy

Spring Wollongong On Campus

Credit Points: 8

Contact Hours: 4 hrs lectures and workshops

Pre-requisites: GHMC939 Introduction to CBT

Assessment: Audio-tape of therapy conducted by student,

examination.

Subject Description: The subject aims to provide students with theoretical knowledge underpinning, and skills training in the practice of cognitive behavioural therapy. Cognitive behavioural interventions for a large number of psychological disorders in adults will be covered including anxiety, mood, eating, somatoform, substance abuse, and chronic psychiatric disorders. The principles underlying intervention choice, procedural details associated with conduction of therapy and outcome research will be covered. Common pharmacological agents used to treat the disorders will also be briefly discussed. In addition to lectures that will address objectives governing knowledge acquisition, methods such as therapy demonstrations, video review and role play will be used to enhance skills-building and generalisation.

GHMC970 Assessment and Psychopathology A

Autumn Wollongong On Campus

Credit Points: 8

Contact Hours: Autumn 4 hrs seminar

Pre-requisites: None

Assessment: Psychological test reports and exam.

Subject Description: The subject aims to provide students with an overview of descriptive psychopathology. Issues surrounding models of abnormal behaviour and the classification of mental disorders will be examined. The signs and symptoms associated with less severe psychological disorders and the assessment of these conditions by clinical interview and psychological tests will be covered. The subject also covers the theoretical rationale and procedures for administration, scoring and interpretation of core psychological tests. Ethical issues will also be examined.

GHMC971 Assessment and Psychopathology B

Spring Wollongong On Campus

Credit Points: 8

Contact Hours: Spring 2 x 2hrs seminar

Pre-requisites: GHMC970 Assessment and Psychopathology A

Assessment: Seminar presentations, exam.

Subject Description: The subject aims to provide students with an overview of descriptive psychopathology. Issues surrounding models of abnormal behaviour and the classification of mental disorders will be examined. The signs and symptoms associated with severe disorders and the assessment of these conditions by clinical interview and by psychological tests will be covered. The subject also covers the theoretical rationale and procedures for administration, scoring and interpretation of psychological tests.

GHMC978 Child and Adolescent Psychology

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2 hrs seminar

Pre-requisites: None

Co-requisites: None

Assessment: Child case reports (x2), Final Examination.

Subject Description: This subject will review a number of topics essential to understanding the nature of child and adolescent development and threats to normal functioning. For example, the subject covers advanced conceptual and

theoretical discussion and knowledge concerned with what constitutes the nature of self control, information processing, the structure of memory and the acquisition of reading skills in relation to developmental progression in children's development. This subject will also develop an understanding of the factors and conceptual underpinnings of the nature of at-risk behaviour in childhood and adolescence. The focus of this subject will be on further developing a wider theoretical understanding of some of the most important issues in relation to threats to normal child and adolescent development.

GHMC979 Major Research Project

Annual Wollongong On Campus

Credit Points: 18

Contact Hours: Annual 1 hr weekly seminar

Pre-requisites: None

Assessment: Empirical study report of between 6,000 and 8,000 words

Subject Description: Students complete an empirical study on a research topic chosen from given areas of staff expertise. Projects may be conducted in small groups, however, write-ups will be completed and assessed individually. Weekly research seminars consist of discussion of the research process, selecting a topic, and enhancing writing and oral presentation skills.

GHMC981 Research Project C

Spring Wollongong On Campus

Credit Points: 16

Contact Hours: 1 hr seminar per week

Pre-requisites: GHMC946 Research Project A

Assessment: Thesis

Subject Description: Research Project C in combination with Research Project A, aims to equip students with a wide variety of research skills required for professional psychology. The subject covers ethical issues in research, the importance of conceptual and theoretical foundations in research, how to critically evaluate research, establishing aims, sampling, design, methods of data collection, principles and procedures governing selection and implementation of data analyses. Students will receive assistance in data entry, screening, and analysis using SPSS. Students will learn the stylistic requirements of scientific writing for research publication. Research Project A, C and the Major Thesis comprise the research component of the Doctor of Psychology (Clinical) degree.

GHMC982 Research Project D

Annual Wollongong On Campus

Credit Points: 24

Contact Hours: Annual

Assessment: Thesis

Subject Description: This subject focuses on advancement of research skills particularly within the areas of data analyses and thesis writing. The candidate will be required to attend regular sessions with the research supervisor. In certain cases, attendance at specified research lectures, seminars and other workshops might be required. The project culminates in the submission of a research thesis.

GHMC983 Research Project E

Spring Wollongong On Campus

Credit Points: 12**Contact Hours:** Spring 1 hour a week**Assessment:** Research proposal

Subject Description: This subject focuses on research skills appropriate for practising professionals, including setting up systems for data collection and management in agencies, analyses of clinical data, and reporting of results. If data collection is involved, this will be a minor component. In certain cases, attendance at specified research seminars and workshops might be required. The project will culminate in a) a research proposal describing research aims, procedures for collection, management and analyses of routinely collected data, or b) analyses of archival data and preparation of a manuscript for submission to a scientific journal. Occasionally the report may also take the form of a comprehensive review of literature on a clinical topic.

GHMC984 Social Psychology and Health

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** Spring 2 hrs seminar**Co-requisites:** None

Assessment: Feature article 20%, Health promoting program report 40%, Exam 30%, Reflective write-up 10%.

Subject Description: This subject addresses key theoretical and empirical issues in the area of Social Psychology and explains their implications for health behaviours. The focus is on the joint effects of internal and external processes in the causation and maintenance of human behaviours. Emphasis is placed on elaborating social psychological models of health behaviours, the roles of attitudes, values and beliefs in shaping different behaviours and the effects of conformity, compliance and life events on behaviour. A range of psychological and health principles will be examined within the context of formulating treatment and evaluation proposals or prevention programs designed to change social behaviours in relation to health issues, such as stress and coping strategies, drug and alcohol abuse, sexual behaviours, exercise and nutrition, and aged care. The applicability of major research findings across cultures will also be addressed.

GHMC985 Principles and Practices of Psychological Assessment

Autumn Wollongong On Campus

Credit Points: 6**Contact Hours:** Refer to Faculty**Pre-requisites:** None**Co-requisites:** None

Assessment: Essay 30%, Assessment report 50%, Test report 20%

Subject Description: The aim of this subject is to examine the principles underpinning psychological assessment and introduce students to the practices of psychological assessment. The subject is designed to integrate learning in previous years including theories of personality, intelligence combined with statistical theory and then examine how these issues are used in practice. Criteria to understand and evaluate psychological tests will be used as a common theme throughout the subject, including examination of their

construct validity. The general ethical issues of psychological assessment will be compared to the specific Australian Psychological Society guidelines for psychological assessment. After examination of the theoretical principles, students will have the opportunity to administer, score and interpret commonly used assessment tools used to assess general intelligence, emotional intelligence, personality and vocational preference and psychological well-being.

GHMC988 Contemporary Issues for Professional and Research Psychologists

Autumn Wollongong On Campus

Credit Points: 6**Contact Hours:** Autumn 1 hr lecture and 1 hr tutorial**Pre-requisites:** None**Co-requisites:** None

Assessment: Ethical dilemmas essay 30%, Research proposal 30%, Progress report 10%, Exam 30%

Subject Description: The first part of this subject draws together key issues in ethics, research and professional practices in psychology. Ethics theory will be addressed and ethical and legal issues will be explored in research, therapeutic and professional settings. The second part deals with contemporary issues in experimental psychology including, for instance, memory, reading disorders, emotional intelligence, etc.

GHMC989 Advanced Abnormal Psychology

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** Refer to Faculty**Pre-requisites:** None**Co-requisites:** None

Assessment: Essay 35%, Mid session test 15%, Final exam 50%

Subject Description: This subject builds upon previous study in core areas of abnormal psychology, with contributions from personality, learning, and developmental psychology to consider the way theories of human behaviour help our understanding of psychopathology. Students will be expected to develop a critical and analytical understanding of the conceptual frameworks and assumptions of a number of major schools of abnormal psychology. The etiology and maintenance of clinical disorders will be examined from a variety of theoretical and research perspectives.

GHMC990 Advanced Clinical Issues A

Spring Wollongong On Campus

Credit Points: 4**Contact Hours:** Spring 2 hrs per week**Assessment:** Research proposal

Subject Description: This subject refers to an in-depth coverage of any specific topic of assessment or therapy determined by the Clinical Programs Director to be of relevance for the student's unique set of circumstances. The topic can relate to a specific disorder or a specific assessment or therapeutic intervention. Coverage will include a intensive review of current literature including current controversies, a critical evaluation of theoretical bases and practical applications. Teaching and assessment methods will depend on the topic chosen.

GHMC991 Advanced Practicum A

Spring	Wollongong	On Campus
Annual	Wollongong	On Campus
Spring2005/		
Summer2005	Wollongong	On Campus
Summer2005/		
Autumn2006	Wollongong	On Campus
Autumn	Wollongong	On Campus

Credit Points: 4**Contact Hours:** Refer to Faculty**Assessment:** Case presentation; clinical supervisor's report; therapy case submission.**Subject Description:** The practicum is composed of at least 200 hours of supervised casework from the Northfields Clinic or other specified agencies that provide psychological services. Casework will include assessment and treatment of difficult psychological problems. The student will be required to attend group and individual supervision sessions.**GHMC992 Advanced Practicum B**

Spring	Wollongong	On Campus
Summer 05/06	Wollongong	On Campus
Autumn	Wollongong	On Campus
Annual	Wollongong	On Campus
Spring2005/		
Autumn2006	Wollongong	On Campus
Spring2005/		
Summer2005	Wollongong	On Campus
Summer2005/		
Autumn2006	Wollongong	On Campus

Credit Points: 4**Contact Hours:** Refer to Faculty**Assessment:** Case presentation; clinical supervisor's report; therapy case submission.**Subject Description:** The practicum is composed of at least 200 hours of supervised casework from the Northfields Clinic or other specified agencies that provide psychological services. Casework will include assessment and treatment of difficult psychological problems. The student will be required to attend group and individual supervision sessions.**GHMC993 Advanced Training in Personality Disorders A**

Autumn	Wollongong	On Campus
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Credit Points: 4**Contact Hours:** Autumn 1.5 hr seminar per week**Assessment:** Exam (50%) Clinical logbook of supervision and casework (50%)**Subject Description:** This subject focuses on advanced training in the treatment of personality disorders. Classification, etiology, clinical features, and treatment models and methods will be addressed through workshops, clinical presentations, supervision and 20 hours of practicum placement. Part A of this series will focus on the basics of working with people with personality disorders, with emphasis on team approach, setting goals, problem solving, and strategies for dealing with crises. The clinical emphasis will be on conducting a skills based approach for enhancing a client's interpersonal effectiveness, emotion regulation, and distress

tolerance based on principles of Dialectical Behaviour Therapy.

GHMC994 Advanced Training in Personality Disorders B

Autumn	Wollongong	On Campus
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Credit Points: 4**Contact Hours:** Autumn 1.5 hrs. seminar per week**Assessment:** Case presentation and essay (45%) Clinical logbook of supervision and casework (55%)**Subject Description:** This subject focuses on advanced training in the treatment of personality disorders (PD). Clinical features and treatment models and methods will be addressed through workshops, clinical presentations, supervision and 30 hours of practicum placement. Part B of this series will focus on advanced techniques for dealing with more complex difficulties that can arise within treatment. Emphasis will be on developing skills to deal with therapeutic stalemates, comorbid psychopathology, self-harm behaviours, hospitalisations, adolescent clients and termination issues. Consideration will be given to dealing with therapist responses to working with people with PD and building effective supervision and case management teams.**GHMC995 Advanced Training - Clinical Supervision A**

Spring	Wollongong	On Campus
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Credit Points: 4**Contact Hours:** Spring 1.5 hrs. per week**Assessment:** Final examination, videotapes of therapy and supervision**Subject Description:** This subject covers theories and models of clinical supervision, discusses rationale and procedures for setting up programs for clinical supervision, and analyses theoretical and practical issues surrounding the various components including objectives, methods, assessment and evaluation of clinical supervision. Ethical issues and common difficulties arising within supervision are also addressed. The trainee will be required to record videos of therapy sessions, provide supervisory comments on taped therapy sessions, and formulate supervision plans for psychologists in training. In addition to lectures and seminars, skills training methods including demonstration, videotapes and role play are used.**GHMC996 Advanced Training - Clinical Supervision B****Credit Points:** 4**Not on offer in 2005****Assessment:** Video tape of actual supervision sessions, assignment**Subject Description:** This subject focuses on the supervised practice of clinical supervision. The student will be required to formulate supervision plans and supervise trainee psychologists, so an investment of 40-60 hours in supervision work should be expected. The trainee supervisor will also receive supervision during this period. The subject will also cover a critical analysis of theoretical and practical issues surrounding the various components, including objectives, methods, assessment and evaluation of clinical supervision. In addition to lectures and seminars, skills training methods

including demonstration, video tape feedback, and role play are used.

GHMD903 Public Health Communication and Data Skills

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus

Credit Points: 6

Contact Hours: Autumn 2 hours, Spring 2 hours

Exclusions: Students who have already demonstrated acquisition of these communication and data skills.

Assessment: Each module will be assessed separately on a pass/fail basis.

Subject Description: The aim is to acquire and practise a number of skills using public health examples. With the agreement of the coordinator, the student selects three modules. Modules include: 1) Epi-Info including small case studies; 2) Communication in public health including written and oral presentation; 3) Information sources including library and Internet searches with presentation of results; 4) Project management for public health.

GHMD904 Epidemiology

Spring	Wollongong	On Campus
Spring	Wollongong	Distance

Credit Points: 6

Contact Hours: Spring 2 hours

Pre-requisites: GHMD983 - Statistics in Health Research

Assessment: Two assignments - 25% each, Examination - 50%

Subject Description: This subject addresses principles and methods of epidemiological investigation including analytic and experimental epidemiology. Topics to be covered are: measurement in epidemiology, screening, design of ecological studies, surveys, case control and cohort studies, clinical trial design, analysis of studies, critical appraisal of the literature, biological inference and causality. These methodological issues will be applied to a wide range of content areas such as occupation, cancer, health services and infectious diseases.

GHMD905 Social Foundations of Public Health

Autumn	Wollongong	On Campus
Autumn	Wollongong	Distance

Credit Points: 6

Contact Hours: Autumn 2 hours seminar

Assessment: Two assignments - 60%, Final examination - 40%

Subject Description: Introduces students to theories and concepts from the social sciences necessary for the understanding and analysis of public health issues. Examines socio-economic and environmental influences on health, and health inequalities. Explores development, gender, citizenship, culture and human rights. Critiques the concepts of community and social capital.

GHMD906 Quality Management For Health Services

Spring	Wollongong	On Campus
Spring	Wollongong	Distance

Intake A Wollongong Modular

Credit Points: 6

Contact Hours: Refer to Faculty

Assessment: Three assignments

Subject Description: Develops knowledge and skills in the application of contemporary quality management theories and concepts. Examines the forces driving change in the organisation and management of health care organisations and the implications for health care managers. Traditional approaches are contrasted with contemporary approaches. Quality management is considered an essential component of good management practice. It is still developing as an 'accepted' management concept for implementation.

GHMD907 Independent Study in Public Health

Autumn	Wollongong	On Campus
Autumn	Wollongong	Distance
Spring	Wollongong	Distance
Spring	Wollongong	On Campus

Credit Points: 6

Contact Hours: Refer to Faculty

Assessment: Will reflect on the learning contract.

Subject Description: The program for this subject may vary. A supervisor will be appointed by the Head of the Graduate School of Public Health and a learning contract will be drawn up between the supervisor and student. Students may enrol only if a supervisor is available. The time commitment for an independent study is the same as that for any subject of equivalent credit points. Assessment is usually based on a research proposal or a written report.

GHMD908 Health Services Planning and Evaluation

Spring	Wollongong	On Campus
Spring	Wollongong	Distance

Credit Points: 6

Contact Hours: Spring 2 hours seminar

Assessment: Three assignments

Subject Description: This subject covers the theory and practice of health planning. Topics include: Needs analysis, planning approaches, strategy analysis and formulation, setting goals and objectives, performance measurement and evaluation. Students will develop skills in service planning for population/public health programs and institutional services.

GHMD909 Comparative Health Systems: Policies and Politics

Spring	Wollongong	Distance
Spring	Wollongong	On Campus

Credit Points: 6

Contact Hours: Spring 2 hours lecture

Assessment: One assignment - 30%, One assignment - 40%, Final examination - 30%

Subject Description: This subject examines how ideologies and political processes influence health policy development and health service delivery. The impact of broad socio-economic forces on health status and health policy development are emphasised. The subject is designed to assist individuals to develop analytical and strategic skills.

GHMD912 Health Promotion

Spring	Wollongong	On Campus
Spring	Wollongong	Distance

Credit Points: 6**Contact Hours:** Spring 2 hours**Assessment:** Assignments and an examination.

Subject Description: This subject introduces students to the concept of health promotion and how it has been applied in particular settings - health services, worksites, schools and communities. Theoretical perspectives of behaviour change and public policy, as they are applied within the field of health promotion, will be critically reviewed. Subject involves on-line student discussions.

GHMD913 Alcohol and other drug studies

Autumn	Wollongong	On Campus
Autumn	Wollongong	Distance

Credit Points: 6**Contact Hours:** Autumn 2 hours lecture per week**Assessment:** To be advised

Subject Description: This subject will provide an understanding of the pharmacological, psychological and sociological basis of alcohol and other drug (AOD) use and dependence. It will focus on government, intersectoral and community approaches to inform, minimise and treat the harm caused by the use of alcohol and other drugs. Contemporary issues, perspectives and approaches, which impact on both national and global policies, will be explored.

GHMD924 Health Information Systems

Autumn	Wollongong	On Campus
Autumn	Wollongong	Distance
Intake B	Wollongong	Modular

Credit Points: 6**Contact Hours:** Autumn 2 hours**Assessment:** Case analyses, Major assignment, Database assignment.

Subject Description: This subject will introduce information systems in health and health informatics to students. Topics will include: clinical systems development, systems management, electronic health record, clinical decision support, classification and coding, privacy and confidentiality and IT risk assessment. Current and future computer applications in health (e.g. PAS, order management, tele health) will be discussed.

GHMD925 Aboriginal Health Issues

Spring	Wollongong	On Campus
Spring	Wollongong	Distance

Credit Points: 6**Contact Hours:** Spring 2 hours seminar**Assessment:** Three assignments.

Subject Description: Examines the health status of Aboriginal Australians from a historical perspective, using relevant insights from the experiences of other indigenous populations. Explores the causes of Aboriginal health problems, the political and economic context of health, the role of culture, and access to health services. Critiques current strategies to improve health.

GHMD930 Mass Media and Population Health**Credit Points:** 6**Not on offer in 2005****Assessment:** Two essays, written project.

Subject Description: This unit examines the effects of media on population health - from the negative impact of advertisements for cigarettes, alcohol and junk food to the (hopefully) positive impact of public health campaigns. The subject covers commercial and social advertising, program and editorial content, media advocacy, and social marketing; and presents case studies of current media coverage and advertising campaigns to demonstrate the effects of media on health and social behaviour. Students will develop skills in media analysis, the development of communication campaigns, and dealing with the media.

GHMD936 Public Health Nutrition

Autumn	Wollongong	On Campus
Autumn	Wollongong	Distance

Credit Points: 6**Contact Hours:** Autumn 2 hours**Exclusions:** Not to count with GHMA930 or BMS310**Assessment:** Assignments

Subject Description: This subject will introduce the student to the food and nutrition system in Australia. Key areas of public health nutrition discussed include food and nutrition surveillance, food policy, programme planning and nutrition promotion. Subject involves on-line student discussions.

GHMD937 Food Inspection for Public Health**Credit Points:** 6**Not on offer in 2005****Assessment:** To be advised.

Subject Description: This subject will contain a mix of practical food inspection skills and the principles of systematic food inspection. It will also cover responses to food-borne outbreaks and options of monitoring, investigation and prevention of such outbreaks. Both Australian and overseas practices and requirements will be addressed depending on the student needs.

GHMD981 Maternal and Child Health in Developing Countries

Spring	Wollongong	On Campus
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Credit Points: 6**Contact Hours:** Spring 2 hours**Assessment:** MCH service analysis, Exam, Project plan.

Subject Description: Students will critically examine the 'safe motherhood' and 'reproductive health' programs in developing countries. They will develop skills in obtaining and assessing evidence based practices in Maternal Health and Child Health. They will develop a project for a MCH intervention in a selected developing country.

GHMD983 Statistics in Health Research

Autumn	Wollongong	On Campus
Autumn	Wollongong	Distance

Credit Points: 6**Contact Hours:** Autumn 3 hrs/wk

Subject Description: Introduces basic statistical concepts and methods. Topics covered: collecting data, designing statistical studies, principles of data presentation; exploratory data analysis, probability and statistical models emphasising binomial and normal distributions; categorical data, contingency tables and the Chi-squared distribution; sampling, sample means and the central limit theorem; inference - point estimation, confidence intervals, testing hypotheses; inference about single parameters; comparing means and proportions, analysis of variance, demography.

GHMD984 Health Research Methodology

Spring	Wollongong	On Campus
Spring	Wollongong	Distance

Credit Points: 6

Contact Hours: Spring 2 hours seminar, Spring

Pre-requisites: GHMD983 - Statistics in Health Research, or GHMB950 Reflective Practice, or equivalent.

Assessment: Three written assignments.

Subject Description: This subject introduces students to health research methodology. Topics include formulating a research question, conducting a literature review and writing a research proposal. Students will acquire skills in interviewing, survey design, and appropriate methods of qualitative and quantitative analysis. Ethical issues such as informed consent and confidentiality will be addressed.

GHMD985 Applied Epidemiology

Summer 05/06	Wollongong	On Campus
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Credit Points: 6

Contact Hours: Refer to Faculty

Pre-requisites: GHMD904 - Epidemiology

Assessment: One assignment - 10%, 3 assignments - 15%, 1 assignment - 20%, 1 assignment - 25%

Subject Description: The subject consists of a self-directed computer based case study to be conducted in teams of 2 students. The case study concerns an environmental contamination and the methods to investigate the situation and its health effects. The students are placed in the situation of a public health official with a limited financial budget and many options for research. Primary investigation, risk evaluation, potential study designs and actual study analysis will be covered. Presenting the results to a critical audience will be simulated in class presentations.

GHMD986 Environmental Health

Summer 05/06	Wollongong	On Campus
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Credit Points: 6

Contact Hours: Refer to Faculty

Assessment: 4 assignments

Subject Description: This subject covers various case studies in environmental health such as air pollution, soil contamination, climate change, water availability and contamination, waste problems and urbanisation. The lectures present the theories and internationally relevant cases. The students will present their own case studies in class and critique another in writing.

GHMD995 Minor Project

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus

Credit Points: 12

Contact Hours: Refer to Faculty

Pre-requisites: 24 cp at graduate level

Assessment: Examination of report

Subject Description: Students are normally required to present a report which deals with an agreed health problem to agreed guidelines and to a maximum length of 10,000 words.

GHMD997 Major Project

Annual	Wollongong	On Campus
Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus

Credit Points: 24

Contact Hours: Refer to Faculty

Pre-requisites: GHMD984 - Health Research Methodology

Assessment: Examination of report

Subject Description: The major project is an individual research endeavour under supervision. The candidate is encouraged to research a contemporary issue in their area of specialisation within the research areas of members of the Graduate School of Public Health. It is expected that there be both a theoretical and empirical content to the project. Students must have the permission of the Coordinator to undertake this subject. Guidelines for this subject are available from the Coordinator. The student is required to pass an examination of the detailed research proposal before about one third of the research time has passed. The final assessment of the subject is based on the written report but oral presentations are required at various times.

PSYC966 Professional Practice Group Supervision A

Annual	Wollongong	On Campus
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Credit Points: 8

Contact Hours: Refer to Faculty

Pre-requisites: 4 year degree in Psychology

Co-requisites: nil

Assessment: Written case assessment and intervention plan (40%), written and oral case presentation (30%), reflective journal on (a) ethical and cultural issues covered during supervision and (b) skills modified and applied as a result of supervision (30%).

Subject Description: This subject will assist students to fulfil NSW Psychologists Registration Board requirements for Supervision. It consists of meetings of up to 5 students and a clinical supervisor to discuss applications of psychological skills to practice. While this subject is independent of GHMC967 (Professional Practice Workshops A), students enrolled in both subjects will have an opportunity to use the group supervision to further develop skills learned in workshops.

PSYC967 Professional Practice Workshop A

Annual	Wollongong	On Campus
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Credit Points: 8

Contact Hours: Refer to Faculty

Pre-requisites: 4th year in Psychology

Co-requisites: nil

Assessment: Videotaped role play of interviewing and counselling application (30%), written report on ethics vignette and recommendation for action (20%), live/video in class application of 2 psychological tests covered in the workshop (30%), reflective exercise on career plan and knowledge/skills needed to enable the plan (20%).

Subject Description: This subject will assist students to fulfil NSW Psychologists Registration Board requirements for Approved Workshops and Seminars. It consists of 8 workshops on four board required certificate subjects: Introduction to Psychological Practice; Ethical, Legal and Professional Matters; Psychological Testing; and Interviewing, Counselling and Consulting. Workshops will be delivered by specialist professionals and/or academics with specific skills and knowledge in the identified areas, will be skills based and will be delivered in block workshop formats. While this subject is independent of PSYC966 (Professional Practice Group Supervision A), students enrolled in both subjects will have an opportunity to use the group supervision to further develop workshop skills.

PSYC968 Professional Practice Group Supervision B

Annual Wollongong On Campus

Credit Points: 8

Contact Hours: Annual

Pre-requisites: 4 year degree in Psychology

Co-requisites: nil

Assessment: Written and oral case presentation of assessment (30%), written and oral case presentation of intervention (30%), oral examination of relationship issues (40%).

Subject Description: This subject will assist students to fulfil NSW Psychologists Registration Board requirements for Supervision. It consists of weekly meetings of up to 5 students and a clinical supervisor to discuss applications of psychological skills to practice. While this subject is independent of GHMC969 (Professional Practice Workshops B) students enrolled in both subjects will have an opportunity to use the group supervision to further develop skills learned in workshops. This subject will build on the skills and experiences of Professional Practice Group Supervision A.

PSYC969 Professional Practice Workshop B

Annual Wollongong On Campus

Credit Points: 8

Contact Hours: Annual

Pre-requisites: 4 year degree in Psychology

Co-requisites: nil

Assessment: Videotaped role play of therapy application (50%), written single case analysis and report, case note documentation (50%).

Subject Description: This subject will assist students to fulfil NSW Psychologists Registration Board requirements for Approved Workshops and Seminars. It consists of 8 workshops on four board required certificate subjects: Intervention Strategies; Record Keeping; Development and Maintenance of Psychological Skills; and Data Collection and Evaluation. Workshops will be delivered by specialist professionals and/or academics with specific skills and knowledge in the identified areas, will be skills based and will be delivered in block workshop formats. While this subject is

independent of GHMC968 (Professional Practice Group Supervision B), students enrolled in both subjects will have an opportunity to use the group supervision to further develop workshop skills.

SFC 901 Contemporary Issues in Food and Nutrition

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: Spring 44 hours per semester

Pre-requisites: As per course entry requirements

Co-requisites: As per course entry requirements

Exclusions: None

Assessment: Written Assignments 70%; Presentations 30%

Subject Description: This subject introduces students to ideas on the causes, nature, and effect of a number of current food and nutrition issues. This includes, but will be not limited to, the alteration of nutrient composition in the development of foods to meet specific needs and the food regulatory environment including consideration of labelling requirements that must be addressed. Examples will be drawn from Australia and overseas. Students will critically discuss the role of influential factors, including interaction of biological, lifestyle and sociocultural aspects of human behaviour; changes in the nature of the food system; role of government and professional groups; and consumer interests.

SFC 902 Food Regulation and Policy in Australia

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Autumn 44 hours per session

Pre-requisites: As per course entry requirements

Co-requisites: As per course entry requirements

Exclusions: None

Assessment: Written Assignments 70%; Presentations 30%

Subject Description: This subject describes and analyses aspects of the Australian food regulatory system and its relationship with the production and promotion of foods. Issues are discussed within 3 modules: food regulatory system and the legal framework; food policy: development, organisational structures and analysis; and food and nutrition system - examples of food regulation and policy issues.

SFC 903 Nutrition Research

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: Autumn 44 hours per session

Pre-requisites: None

Co-requisites: None

Exclusions: None

Assessment: Written assignments 70%; Presentations 30%

Subject Description: The subject introduces students to the critical interpretation of research findings in nutrition and to the evaluation of primary and other source material as a foundation for evidence based nutrition. It will provide a series of research edge seminars based on activities of the Smart Foods Centre and collaborators. This will initially focus on identification, development and scientific evaluation of key nutrients in foods optimising carbohydrate and fat balance in the diet, and consumer evaluation of nutrients and foods.

Subject Descriptions

Students will complete a critique of current research and report on learning outcomes as they relate to their work environment.

SFC 904 Nutrition and Food Innovation

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus

Credit Points: 6

Contact Hours: Autumn 44 hours per session, Spring 44 hours per session

Pre-requisites: None

Co-requisites: None

Exclusions: None

Assessment: Written assignments 70%; Presentations 30%

Subject Description: The subject introduces students to the use of technologies which underpin the development of the contemporary Australian food supply. These include, but are not limited to, genetic modification and its applications in food production, the impact of feeding programs on livestock, issues concerning trends to home replacement or ready to eat meals, use of risk assessment frameworks and an overall critique of biotechnology in food production.

INFORMATICS SUBJECT DESCRIPTIONS

CSCI907 Corba and Enterprise Java

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 2L**Exclusions:** CSCI407**Assessment:** A series of assignments totalling 100% with no one assignment exceeding 50% in value.**Subject Description:** This subject introduces students to the 'enterprise level' computing environments - Corba, and Enterprise Java Beans. It will also provide a more limited overview of general 'web services' and related technologies. The emphasis is practical with students developing Corba applications with Java clients and C++ servers, and later creating and deploying complete EJB systems.**CSCI908 Distributed Java****Credit Points:** 6**Not on offer in 2005****Exclusions:** CSCI408**Assessment:** A series of assignments totalling 100% with no one assignment exceeding 50% in value.**Subject Description:** This subject provides students with a strong grounding in distributed object systems, using the inter-related Java based RMI, Jini, Javaspaces, and JXTA technologies as illustrations. The content will include an exploration of how to 'objectify' a client-server distributed system, a reasonably detailed study of Java Remote Method Invocation, exploration of the Jini technology with emphasis on applications such as Javaspaces distributed computing, and an introduction to the latest Java based peer-to-peer systems.**CSCI925 Topics in Software Engineering**

Autumn Wollongong On Campus

Credit Points: 6**Contact Hours:** 2hrs lecture**Co-requisites:** nil**Exclusions:** CSCI425**Assessment:** Project Planning & Requirement Specifications 20% Project Architecture & Design 10% Project Testing 20% Version Control 10% Final Exam 40%**Subject Description:** This subject examines the current state of software engineering both as an academic discipline and as a profession. The subject focuses on issues of requirements engineering, system procurement, and professional practice, and through case studies, the subject considers reasons for the failure and success of various software engineering projects.**CSCI941 Advanced Topics in Computer Science A****Credit Points:** 6**Not on offer in 2005****Subject Description:** Topics will be selected from those areas of computing science in which visiting staff members of the School are engaged in active research.**CSCI942 Advanced Topics in Computer Science B****Credit Points:** 6**Not on offer in 2005****Subject Description:** Topics will be selected from those areas of computing science in which visiting staff members of the School are engaged in active research.**CSCI943 Advanced Topics in Computer Science C****Credit Points:** 6**Not on offer in 2005****Subject Description:** Topics will be selected from those areas of computing science in which visiting staff members of the School are engaged in active research.**CSCI944 Perception and Planning**

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 2hrs lecture**Pre-requisites:** nil**Co-requisites:** nil**Assessment:** Assignments 100%**Subject Description:** This subject explores ways in which a robot can combine data from variety of sensors to create or update a model of its environment, and then use this model to infer the consequences of proposed actions. The subject will cover the use of internal sensors, such as those measuring odometry and location, and external sensors including those for touch, vision, and range finding.**CSCI945 Parallel Computing****Credit Points:** 6**Not on offer in 2005****Subject Description:** This subject presents different approaches to the construction of parallel algorithms and computer architectures. Both theoretical and practical aspects are covered, emphasis is placed on identifying the suitability of the approaches for specific applications.**CSCI946 Multimedia Studies**

Autumn Wollongong On Campus

Credit Points: 6**Contact Hours:** 2 hr lecture and 2hr lab**Co-requisites:** nil**Assessment:** Assignments 40% Exam 60%**Subject Description:** This subject studies the creation and programming of digital media for multimedia applications. Multimedia systems combine images, graphics, sound and text to interactively communicate information. Each of these media has its own standards, algorithms and file formats. The foundations strand examines the principles of how media is created. The programming strand explores the programming of multimedia applications, using a multimedia applications such as QuickTime for Java. The practical strand explores the acquisition, encoding and editing of digital video and audio with professional tools, such as Final Cut Pro.

CSCI957 Advanced Topics in Database Management

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 3 hrs lecture, 1 hr seminar**Pre-requisites:** nil**Co-requisites:** nil**Assessment:** Implementation project (20%) mini research project (30%) final examination (50%)**Subject Description:** This subject covers two advanced topics from modern database management systems: object-oriented databases and transaction management in database systems. The topics include the details such as design and implementation of object-oriented database systems, hybrid transaction management, optimistic transaction management, nested transactions, management of long transactions, and management of transaction in distributed systems.**CSCI963 Advanced Computer Graphics****Credit Points:** 6*Not on offer in 2005***Pre-requisites:** nil**Co-requisites:** nil**Assessment:** Assignment 60% Examination 40% (form of assessment to be confirmed with class)**Subject Description:** In this subject students will learn how to use graphics techniques such as ray tracing and radiosity to produce highly realistic images with features such as shadows, reflection, refraction, texturing, penumbras and motion blur. The rendering algorithms and their underlying mathematics are covered with a practical component being the implementation of a ray tracer. Applications including scientific visualisation are also covered.**CSCI964 Neural Computing**

Autumn Wollongong On Campus

Credit Points: 6**Contact Hours:** 2hrs lecture**Pre-requisites:** nil**Co-requisites:** nil**Assessment:** Exam 60% Assignment 40%**Subject Description:** This subject introduces students to the basics of 'soft' computing. Primary focus will be on artificial neural networks, with some attention also given to genetic algorithms, (evolutionary computing), fuzzy logic and neurofuzzy expert systems. These approaches will be compared and contrasted with heuristic, rule-based artificial intelligence methods, such as decision trees and case-based reasoning. Several application areas will be discussed, primarily pattern recognition and/or classification.**CSCI965 Design and Analysis of Algorithms****Credit Points:** 6*Not on offer in 2005***Pre-requisites:** nil**Co-requisites:** nil**Assessment:** 50% assessment 50% exam**Subject Description:** The objective of this subject is to develop the knowledge, skills and techniques for designing and analysing algorithms. Topics to be studied include: review

of standard algorithm designs including divide and conquer, the greedy method, etc; complexity analysis and comparison of algorithms, number theoretical algorithms

CSCI966 Coding for Secure Communication

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 2hrs**Pre-requisites:** nil**Co-requisites:** nil**Assessment:** Assignment 50% Exam 50%**Subject Description:** This subject provides a fundamental understanding of information protection and efficient coding strategies that can be used to ensure correctness, security and authenticity of data. It uses entropy as the universal measure of information to analyse and explore fundamental bounds on the performance of secure and reliable storage and communication systems, and examine a range of coding schemes that form the main building blocks of such systems. It will include the following topics. i) redundancy in data and compression algorithms ii) efficient error control strategies for secure and reliable communication and storage systems; iii) coding methods for secrecy and authenticity.**CSCI967 Complexity Theory****Credit Points:** 6*Not on offer in 2005***Pre-requisites:** nil**Co-requisites:** nil**Assessment:** Assignment 50% Exam 50%**Subject Description:** The subject introduces basic concepts of complexity theory. Topics include NP-completeness and NP-hardness, Cook's theorem and its implications concepts of indistinguishability and pseudorandomness, interactive proof systems and zero-knowledge protocols.**CSCI968 Network Security**

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 2hrs lecture, 1hr tutorial**Pre-requisites:** nil**Co-requisites:** nil**Assessment:** Assignment 50% Exam 50%**Subject Description:** This subject provides a survey of network security technologies and explores them in practice. This includes but not limited to, network-based threats, security failure in cryptographic and network protocols, authentication servers, certificates and public-key infrastructure, security provisions in communication protocols and standards, electronic mail security, firewalls and intrusion detection systems.**CSCI971 Computer Security**

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 2hrs lecture**Pre-requisites:** nil**Co-requisites:** nil**Assessment:** 50% assessment 50% exam

Subject Description: This subject provides a review of computer security. Topics include: digital signatures, elliptic curve cryptography, El Gamal public key methods, the Advanced Encryption Standard (AES), Security Standards, Security Evaluation Standards, Linear Cryptanalysis, Differential Cryptanalysis.

CSCI974 Systems Analysis

Credit Points: 6

Not on offer in 2005

Subject Description: This subject concentrates on the analysis and design stages of the software implementation process. It provides students with an understanding of the engineering issues related to the initial implementation of a specified system and to the problems of long term maintenance and evolution. Dataflow, entity-relationship, object models and other design approaches are reviewed. Case studies include projects in the real time area.

CSCI981 Preliminary Topics in Computer Science B

Credit Points: 6

Not on offer in 2005

Pre-requisites: nil

Co-requisites: nil

Subject Description: A selection of topics will be available from time to time to serve as preliminary material in the Master of Computer Science.

CSCI982 Preliminary Topics in Computer Science C

Credit Points: 6

Not on offer in 2005

Pre-requisites: nil

Co-requisites: nil

Subject Description: A selection of topics will be available from time to time to serve as preliminary material in the Master of Computer Science.

CSCI983 Preliminary Topics in Computer Science D

Credit Points: 6

Not on offer in 2005

Pre-requisites: nil

Co-requisites: nil

Subject Description: A selection of topics will be available from time to time to serve as preliminary material in the Master of Computer Science.

CSCI991 Project

Annual Wollongong On Campus

Credit Points: 12

Contact Hours: varies – consultation with supervisor

Subject Description: This subject involves undertaking a project. Where possible the projects are related to the research interests of the School and/or staff and are chosen to develop the student's research skills.

DESN921 Creative Industries: Design for Interactive Multimedia

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 1 hr lecture and 2 hr tutorial each week

Exclusions: Not to count with DESN129.

Assessment: Design projects 60% Process 40%

Subject Description: This subject provides an introduction to design fundamentals and the values of visual design to interactive multimedia production. Students will explore formal composition principals, application of type and image, and approaches to digital layout. Within a framework of weekly lectures and tutorials, students will be required to undertake research and develop design concepts and solutions to set project briefs.

ECTE901 Fast Signal Processing Algorithms

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2hr Lecture/2hr Practical per week - Weeks 1-7

Exclusions: ELEC901/ECTE401

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: The aim of this subject is to extend the digital signal processing knowledge gained in undergraduate courses. It forms a useful basis for subsequent DSP applications subjects. Topics covered will include: Discrete Transforms, including: FFT, DFT, DCT, etc.; Wavelet transforms; Filter Design and Structures and Multirate Signal Processing (Interpolation, Decimation, etc.); and current research developments.

ECTE902 Stochastic Signal Processing

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 2hr Lecture/1hr Tutorial per week - Weeks 1-7

Exclusions: ELEC901/ECTE402

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: The aim of this subject is to extend the digital signal processing knowledge gained in undergraduate courses. It forms a useful basis for subsequent DSP applications subjects. The contents will consist of: stochastic signals; least squares analysis, including optimal linear filters; spectral analysis, including linear predictive analysis; and basic scalar quantisation schemes (e.g., PCM, DPCM, ADPCM).

ECTE903 Image and Video Processing

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 2hr Lecture/2hr Practical per week - Weeks 8-13

Exclusions: ECTE403

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: The aim of this subject is to extend digital signal processing knowledge gained in undergraduate courses. The contents will consist of: applying digital signal processing in image and video processing applications, including current research developments.

ECTE904 Adaptive Signal Processing

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2hr Lec/1hr Tut per week - Weeks 8-13

Exclusions: ELEC907/ECTE404

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: The aim of this subject is to extend digital signal processing knowledge gained in undergraduate courses. The contents will consist of: applying digital signal processing in adaptive signal processing (echo cancellation, channel equalisation, etc.) applications, including current research developments.

ECTE905 Speech and Audio Processing

Credit Points: 6

Not on offer in 2005

Exclusions: ELEC908/ECTE405

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: The aim of this subject is to extend the digital signal processing knowledge gained in undergraduate courses. The contents will consist of: applying digital signal processing in speech and audio processing applications, including current research developments.

ECTE911 AC-Sourced Power Electronics

Credit Points: 6

Not on offer in 2005

Exclusions: ELEC912/ECTE411

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: Topics covered in this subject include: ac-sourced power electronics devices and their main applications, ac to dc power conversion and its industrial applications, ac voltage controllers, high power conversion in electric power utilities, harmonics and current research developments.

ECTE912 DC-Sourced Power Electronics

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2hr Lecture/1hr Tutorial per week - Weeks 8-13

Exclusions: ELEC911/ECTE412

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: This subject will study power conversion circuits with dc-supplies and using modern power switching devices. Topics covered include: power switching devices and their application (diode, MOSFET, IGBT, gto), dc-dc conversion (choppers), including switch-mode power supplies, dc-ac conversion using inverters, including methods of pulse width modulation and current research developments.

ECTE913 Micro-Electronics

Credit Points: 6

Not on offer in 2005

Exclusions: ECTE413

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: The aim of this subject is to extend the electronics knowledge gained in undergraduate courses. Topics covered will include: theory of operation of BJT and FET devices; the use of FET devices in analogue and digital circuits; CMOS logic family; oscillators; high frequency amplifiers; VLSI design techniques; gate arrays; programmable logic devices; memory cells and current research developments. The practical component will consist of using Electronics Simulation Packages to (a) model circuits and examine their behaviour; (b) perform a logical design, (c) program the design into a programmable device and test its performance.

ECTE921 Power Quality

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 2hr Lecture/1hr Tutorial per week - Weeks 8-13

Exclusions: ELEC970/ECTE421

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: This subject will study the different types of systems which can propagate in the electric power supply, their origins and their effects on sensitive equipment such as computers, telecommunications systems, PLCs and variable speed drives. The disturbances include harmonics, voltage sags, capacity switching transients, voltage unbalance, etc. Topics discussed will include: the ability of equipment to emit disturbances, its susceptibility, industry standards; design techniques to ensure standards are met; and current research developments.

ECTE922 Power Quality Monitoring

Credit Points: 6

Not on offer in 2005

Exclusions: ECTE422

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: This subject will treat measurement techniques and waveform interpretation relevant to the operation of sensitive equipment with a non-ideal power supply. The different types of waveform disturbances and their characterisation will be discussed, such as harmonics, inter-harmonics, flicker and voltage sag. Relevant standards

for signal analysis will be examined and their approach justified. There will also be a treatment of transducers and current research developments will be included.

ECTE923 Power Systems

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2hr Lecture/1hr Tutorial per week - Weeks 1-7

Exclusions: ELEC920/ECTE423

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: Topics covered in this subject include: an introduction to power systems comprising thermal and hydro power stations, transmission lines and distribution systems, renewable energy, other energy sources such as solar energy, windmills, sea waves and geothermal, computer applications in power systems planning, design, control and operation, review of basic analysis tools, reactive power management, load flow and fault analysis and flexible ac transmission technology, environmental considerations and current research developments.

ECTE924 Power System Abnormalities

Credit Points: 6

Not on offer in 2005

Exclusions: ECTE424

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: Topics covered include: reliability concerns, insulation requirements and protection methods of energy systems. The design aspect of energy systems for reliable and economical energy supply, internal and external overvoltage protection of energy systems and terminal equipment, stability limits of energy systems; the application of electromagnetic transient programmes (EMTP) for insulation co-ordination and current research developments will be discussed.

ECTE925 Industrial Drives and Actuators

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2hr Lec/1hr Tut per week - Weeks 8-13

Exclusions: ELEC928/ECTE425

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: Topics covered in this subject include: selection of dc, ac motors (induction and/or permanent magnet) and actuators for industrial applications and the design of closed loop speed control systems for dc and ac motors, including current research developments. In ac motor control, field orientation will be given particular emphasis.

ECTE926 Power Distribution

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 2hr Lecture/1hr Tutorial per week - Weeks 1-7

Exclusions: ECTE426

Assessment: See Subject Information Sheet those presented here are only a guide. Final Examination (40%) Tutorial Assignments (10%) Mid Session Examination (10%) Project Assignment (40%)

Subject Description: The aim of this subject is to provide students with an understanding of the design concepts for electrical power distribution relevant to the electrical utility industry and industrial plants containing large power distribution applications. Topics covered in this subject include: an introduction to distribution system planning and automation, load modelling and characteristics, transformer modelling and selection, cable and lines parameters and sizing, design of radial systems, voltage control, capacitor applications, protection and insulation coordination. Current research developments within the power distribution field are also investigated as a research based assignment.

ECTE931 Real-Time Computing

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2hr Lec/2hr Prac per week - Weeks 1-7

Exclusions: ECTE431

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: The aim of this subject is to extend the digital hardware knowledge gained in undergraduate courses. Topics covered will include: real-time operating systems; interrupts; interfacing to real world signals; use of A/D and D/A converters; multi-tasking, multi-threading; clocks and timers; direct digital control; and current research developments. The practical component will consist of writing real-time programs on DSP and micro-controller computer systems.

ECTE932 Computer Systems

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2hr Lec/2hr Prac - Weeks 8-13

Exclusions: ELEC932/ECTE432

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: The aim of this subject is to extend the digital hardware knowledge gained in undergraduate courses. Topics covered will include: CPU organisation; complex instruction sets; reduced instruction sets; I/O structures; interrupts; direct memory access; intelligent peripherals; interfacing to real world signals; use of A/D and D/A converters; multi-processors; parallel DSP architectures and current research developments. The practical component will consist of writing programs on micro-controller computer systems.

ECTE941 Intelligent Control

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 2hr Lecture/1hr Tutorial per week - Weeks 1-7

Exclusions: ELEC943/ECTE441

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: The subject provides the knowledge and skills required to model, analyse and design a system using intelligent methods. The contents will consist of: introduction to fuzzy systems, introduction to artificial neural network, crisp fuzzy control systems, adaptive fuzzy control systems, neuro-fuzzy control systems and current research developments.

ECTE942 Computer Controlled Systems

Credit Points: 6

Not on offer in 2005

Exclusions: ELEC943/ECTE442

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: This subject provides the knowledge and skills required to model, analyse and design computer controlled systems in the z-domain. The contents will consist of: Discrete time state space modelling of system, stability analysis in state space, controllability and observability, pole placement design and state feedback, state observer design and current research developments.

ECTE943 Digital Control

Credit Points: 6

Not on offer in 2005

Exclusions: ELEC943/ECTE443

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: This subject provides the knowledge and skills required to model, analyse and design computer controlled systems in the z-domain. The contents will consist of: Impulse sampling, stability analysis in the Z-domain, root locus analysis and design in the Z-domain, W-transformation, frequency response analysis and design in the Z-domain and current research developments.

ECTE944 Identification and Optimal Control

Credit Points: 6

Not on offer in 2005

Exclusions: ELEC944/ECTE444

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: The subject provides the knowledge and skills required to identify the model of a system and optimise its performance. The contents will consist of: system identification using the least square method and quadratic performance index; quadratic optimal control; Kalman filters; and applications of genetic algorithms in system identification and optimal control, including current research developments.

ECTE945 Advanced Intelligent Control

Credit Points: 6

Not on offer in 2005

Exclusions: ECTE941

Assessment: See Subject Information Sheet those presented here are only a guide. Final examination - 60% Individual and/or group assignments (involving theoretical and practical/laboratory projects) - 30% Oral presentation - 10%

Subject Description: The aim of this subject is to provide students with the knowledge and skills required to model, analyse and design a system using intelligent methods. The contents will consist of: introduction to fuzzy systems, introduction to artificial neural network, crisp fuzzy control systems, adaptive fuzzy control systems, and neuro-fuzzy control systems. Students will be required to undertake an advanced project involving current research developments.

ECTE946 Advanced Computer Controlled Systems

Credit Points: 6

Not on offer in 2005

Exclusions: ECTE942

Assessment: See Subject Information Sheet those presented here are only a guide. Final examination - 60% Individual and/or group assignments (involving theoretical and practical/laboratory projects) - 30% Oral presentation - 10%

Subject Description: The aim of this subject is to provide students with the knowledge and skills required to model, analyse and design computer controlled systems in the z-domain. The contents will consist of: Discrete time state space modelling of system, stability analysis in state space, controllability and observability, pole placement design and state feedback, state observer design. Students will be required to undertake an advanced project involving current research developments.

ECTE953 Report

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus

Credit Points: 12

Contact Hours: 13hrs Tut

Pre-requisites: A WAM of 72.5% for 24 credit points of 900-level including ECTE955.

Co-requisites: 36 credit points at 900-level

Exclusions: ELEC953

Assessment: See Subject Information Sheet, those presented here are only a guide. A final report marked (Supervisor - 60%, and Examiner - 40% report), The Supervisor's mark includes both the project and report component.

Subject Description: Projects may involve a hardware project; a software project; or an extensive literature survey; or a combination of any of these. Where possible the projects are related to the research programs of the School and are chosen to develop the student's initiative. Each student is required to deliver an oral seminar and to prepare a final thesis on the result of the work undertaken.

ECTE955 Advanced Laboratory

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus

Credit Points: 6

Contact Hours: 39hrs Practical

Exclusions: ELEC955

Assessment: See Subject Information Sheet those presented here are only a guide. Reports 40%; Examination 60%.

Subject Description: The aim of this subject is to provide students with an opportunity to apply and verify theory in areas associated with the postgraduate programs through laboratory experiments and computer studies. Students will be expected to design, and perform experiments; analyse results; and write reports on projects selected to illustrate practical issues selected from the two postgraduate programs.

ECTE956 Internet Technology Laboratory

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 2 hour tutorial per week

Co-requisites: ECTE991

Assessment: See Subject Information Sheet those presented here are only a guide - 30% - two reports; 20% - progress; 50% laboratory test.

Subject Description: This subject consists of a series of experiments, during which the students (working individually or in small groups) become familiar with recent technological developments related to the Internet and its applications. Because the experiments are current hot topics in Internet technology, they will be updated regularly to include recent developments. These will include wireless networking, multimedia applications, remote control and operation, etc.

ECTE957 Advanced Internet Project

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 12

Contact Hours: 1 hour tutorial per week

Pre-requisites: A WAM of 72.5% for the full-time first session load (i.e., four six credit point subjects, including ECTE956 Internet Project and ECTE991 Internet Fundamentals).

Co-requisites: ECTE991

Assessment: See Subject Information Sheet those presented here are only a guide. Technical report Oral presentation and project demonstration

Subject Description: This subject involves students working on a major 12 credit point project. The project can be either undertaken by an individual or a group of students. It may be a project that involves hardware and or software development associated with Internet technology. It may also take the form of an extensive literature survey or market evaluation of various internet related technologies and associated aspect including specific applications. Each student is required to deliver an oral presentation and demonstration of the results obtained. A final thesis report will be provided by the student detailing the work undertaken and results achieved.

ECTE958 Advanced Mechatronics Laboratory

Credit Points: 6

Not on offer in 2005

Exclusions: ECTE955

Assessment: See Subject Information Sheet those presented here are only a guide. Final examination - 60% Individual and/or group assignments (involving theoretical and practical/laboratory projects) - 40%

Subject Description: The aim of this subject is to provide students with an opportunity to apply and verify theory through mechatronics laboratory experiments and computer studies. Students will be expected to design, and perform experiments; analyse results; and write reports on projects related to mechatronics activities within the research programs.

ECTE961 Telecommunications Queueing Theory

Autumn Wollongong

On Campus

Credit Points: 6

Contact Hours: 24hrs Lec/Tut/Prac - Weeks 1-7

Exclusions: ELEC960/ECTE461

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: The aim of this subject is to provide students with telecommunication engineering skills including analysis of delay and loss queueing systems, undertake Markov modelling and analysis, and calculate blocking probabilities of telephone switching equipment. Topics covered will include: queueing theory, Markov chain analysis, throughput and congestion analysis, Erlang and Engset distributions, blocking probability, overflow traffic and current research developments.

ECTE962 Telecommunications System Modelling

Autumn Wollongong

On Campus

Credit Points: 6

Contact Hours: 24hrs Lec/Tut/Prac - Weeks 8-13

Exclusions: ELEC960/ECTE462

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: The aim of this subject is to provide students with telecommunication engineering skills including skills to analyse and dimension telephone exchanges, trunk lines, Internet switches and circuit and packet switched networks. Topics covered will include: telephone and data networks and systems, mixed voice and data queueing systems, optimal capacity allocation, direct and alternate routing and current research developments.

ECTE963 Transmission Systems

Credit Points: 6

Not on offer in 2005

Exclusions: ELEC962/ELEC980/ECTE463

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: Topics covered include: Maxwell's equations, wave propagation in transmission lines, the Smith chart, wave guides, optical fibres and current research developments. The aim of this subject is to provide methods of characterising distributed passive transmission media such as transmission lines, wave guides, and fibre optics.

ECTE964 Antennas and Propagation

Credit Points: 6

Not on offer in 2005

Exclusions: ELEC962/ELEC983/ECTE464

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: Topics covered include: wave propagation in the air, signal radiation, antennas and current research developments. The aim of this subject is to provide methods of characterising antenna systems for use in communications.

ECTE965 Wireless Communications

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 2hr Lecture/1hr Tutorial per week - Weeks 1-7

Exclusions: ECTE465

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: The aim of this subject is to introduce wireless communication systems, including cellular telephony, personal communications, and wireless local area networks. The contents will consist of: mobile radio channel characterisation, channel access techniques used in wireless systems, error control coding and current research developments. The taught concepts will be illustrated by examples of existing wireless communication systems and those being developed.

ECTE966 Spread Spectrum Communications

Credit Points: 6

Not on offer in 2005

Exclusions: ECTE466

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: The aim of this subject is to teach students the theory and highlight the major problems involved in application of spread-spectrum communications. The contents will consist of: basic spread-spectrum techniques, principles of code division multiple access (CDMA), design of spreading sequences, detection techniques for CDMA and current research developments. The taught concepts will be illustrated by examples of existing spread-spectrum communication systems.

ECTE967 Mobile Networks

Credit Points: 6

Not on offer in 2005

Exclusions: ECTE467

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: The aim of this subject is to provide students with the knowledge to evaluate current and emerging mobile networks. Topics covered will include: analogue and digital mobile networks, roaming in mobile networks, GSM standards and principles, GSM network

structure, call hand-over analysis, mobility in the Internet, emerging third generation mobile networks and current research developments.

ECTE968 Error Control Coding

Credit Points: 6

Not on offer in 2005

Exclusions: ECTE468

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: The subject includes general concepts of information transmission and covers error-correction techniques applied to data transmission over error-prone (noisy) channels. Topics covered are forward error correction schemes like linear codes, cyclic codes, block codes (e.g. BCH and Reed-Solomon codes), and convolutional codes, as well as error control for channels with feedback, e.g. automatic repeat request (ARQ) coding and current research developments.

ECTE970 Advanced Topics in Engineering

Credit Points: 6

Not on offer in 2005

Assessment: See Subject Information Sheet.

Subject Description: The aim of ECTE970 is to enable students to further their knowledge and abilities in topics selected from the advanced technical subject areas in the relevant postgraduate program areas. Topics will be selected from the fields of computer and telecommunications engineering or automation and power engineering and will include current research developments.

ECTE971 Robotics Manipulators

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 24hrs Lec/Tut/Prac - Weeks 1-7

Exclusions: ELEC973/ECTE471

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: The subject provides the knowledge and skills required to model, analyse, design and employ a robotics manipulator. The contents will consist of: Industrial robots as a component of automation, mathematical modelling of a robotics arm, direct and inverse kinematics model, direct and inverse dynamics model, trajectory planning, robot control and current research developments.

ECTE972 Robotics Sensory Control

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 24hrs Lec/Tut/Prac - Weeks 8-13

Exclusions: ELEC973/ECTE472

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: This subject provides the knowledge and skills required to design appropriate sensors for the intelligent operation of robotics systems. Topics covered

include: intelligent operation of robots, industrial vision, hand-eye control of a robot, tactile sensors, force sensors, ultrasound and other sensors, and current research developments.

ECTE973 Advanced Robotics Manipulators

Credit Points: 6

Not on offer in 2005

Exclusions: ECTE971

Assessment: See Subject Information Sheet those presented here are only a guide. Final examination - 60% Individual and/or group assignments (involving theoretical and practical/laboratory projects)- 30% Oral presentation - 10%

Subject Description: The aim of this subject is to provide students with the knowledge and skills required to model, analyse, design and employ a robotics manipulator. The contents will consist of: Industrial robots as a component of automation, mathematical modelling of a robotics arm, direct and inverse kinematics model, direct and inverse dynamics model, trajectory planning, robot control. Students will be required to undertake an advanced project involving current research developments.

ECTE974 Advanced Robotics Sensory Control

Credit Points: 6

Not on offer in 2005

Exclusions: ECTE972

Assessment: See Subject Information Sheet those presented here are only a guide. Final examination - 60% Individual and/or group assignments (involving theoretical and practical/laboratory projects) - 30% Oral presentation - 10%

Subject Description: The aim of this subject is to provide students with the knowledge and skills required to design appropriate sensors for the intelligent operation of a robotics systems. Topics covered include: intelligent operation of robots, industrial vision, hand-eye control of a robot, tactile sensors, force sensors, ultrasound sensors, and other sensors. Students will be required to undertake an advanced project involving current research developments.

ECTE981 Internet Protocols

Credit Points: 6

Not on offer in 2005

Exclusions: ECTE481

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: This subject will provide students with an understanding of protocols used in computer networks. Examples will be drawn from existing networks including the Internet. Students will learn what computer network protocols are and how they work today, and how they are likely to evolve in the future. Topics to be studied will include: LAN medium access control protocols, congestion/flow/error control, routing, addressing, internetworking and current research developments. There will be both written and programming assignments, including a project involving the design and implementation of an exemplar protocol.

ECTE982 Internet Engineering

Spring

Wollongong

On Campus

Credit Points: 6

Contact Hours: 2hr Lecture/1hr Tutorial per week - Weeks 8-13

Exclusions: ECTE482

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: This subject will provide students with an understanding of the design and operation of computer networks, with emphasis on the Internet. Students will learn what networks are and how they work today, and how they are likely to evolve in the future. Topics to be studied will include: design and operation of the Internet (including IPv4, OSPF, BGP, Mobile IP, CIDR, mobile IP, IPv6, TCP, and UDP), the role of ATM in the Internet (including the use of MPOA and MPLS), and mechanisms for engineering networks to provide QoS (such as RSVP, RTP, ATM service classes, and IETF DiffServ). There will be both written and programming assignments.

ECTE983 Computer Networking

Credit Points: 6

Not on offer in 2005

Exclusions: ELEC969/ECTE483

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: The aim of this subject is to provide students with an understanding of the techniques that are used to provide communication between computer systems. Topics covered will include: modems, addressing, routing, interworking, congestion control in computer networks and current research developments.

ECTE984 Network Design and Analysis

Credit Points: 6

Not on offer in 2005

Exclusions: ECTE484

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: The aim of this subject is to provide students with the engineering skills to analyse multi-service packet switched networks and systems. Topics covered will include: simulation and numerical techniques in queueing, software tools for analysis of queueing systems and networks, queueing performance analysis of Internet, ATM and mobile multi-service networks, and current research developments.

ECTE985 Internet Communications

Credit Points: 6

Not on offer in 2005

Exclusions: ELEC969/ECTE485

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: The aim of this subject is to provide students with an understanding of the techniques that are used to provide communication between computer systems. Topics covered will include: layered protocol architectures, circuit and packet switching, asynchronous and synchronous

transmission, coding, error detection and correction, flow control and current research developments.

ECTE986 Telecommunications Management Network

Credit Points: 6

Not on offer in 2005

Exclusions: ELEC965/ECTE486

Assessment: See Subject Information Sheet those presented here are only a guide. Written examinations 70%; Assignments 30%.

Subject Description: The aims of this subject are to provide students with an understanding of the technical issues of telecommunications management, to provide practical hands-on experience of network configuration and management systems and to make students aware of economic, management and political issues in telecommunications management. Topics covered will include: private and public communications systems; LANs and SNMP; integration of voice, data and video in networks; general management issues; international standards; and current research developments.

ECTE991 Internet Fundamentals

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus

Credit Points: 6

Contact Hours: 3 hours Lecture/Tutorial/Practical per week

Exclusions: ECTE485 and ECTE985

Assessment: See Subject Information Sheet those presented here are only a guide. Final examination Individual and group assignments (involving theoretical and practical/laboratory projects) Oral presentation

Subject Description: The aim of this subject is to provide an overview of the Internet at a system level. In other words, the subject will provide an operational description of the Internet and its main components. The following topics will be covered: Internet evolution and current status, generic network infrastructure and configuration, layered communication architectures and protocols, access technologies, Internet security and management, case studies of Internet applications.

ECTE992 Internet Networking Protocols

Autumn	Wollongong	On Campus
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Credit Points: 6

Contact Hours: 2hr Lecture/1hr Tutorial per week.

Co-requisites: ECTE991

Assessment: See Subject Information Sheet those presented here are only a guide. Final examination Individual and group assignments (involving theoretical and practical/laboratory projects) Oral presentation

Subject Description: This subject will provide students with an understanding of protocols used in computer networks with a particular focus on Internet networks. Topics to be studied will include: LAN medium access control protocols, congestion/flow/error control, routing, addressing, internetworking; design and operation of the Internet (including IPv4 & 6, OSPF, BGP, Mobile IP, CIDR, TCP and UDP, MPOA, and MPLS) quality of service provisioning (such as RSVP, RTP, IETF DiffServ) and current research

developments.

ECTE993 Wireline and Optical Communications

Spring	Wollongong	On Campus
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Credit Points: 6

Contact Hours: 2hr Lecture/1hr Tutorial per week.

Co-requisites: ECTE991

Assessment: See Subject Information Sheet those presented here are only a guide. Final examination Individual and group assignments (involving theoretical and practical/laboratory projects) Oral presentation

Subject Description: This subject will provide a detailed overview of wireline internet access networks and fibre optic techniques. The following topics will be covered: wireline access technologies, high speed modems, xDSL technology for broadband internet access using existing copper loop, cable modem technology, optical fibre technology (including fibre to the home and curb options), optical fibre link design considerations, WDM, optical standards and optical switching techniques.

ECTE994 Wireless and Mobile Communication Systems

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus

Credit Points: 6

Contact Hours: 2hr Lecture/1hr Tutorial per week

Co-requisites: ECTE991

Exclusions: ECTE465/466 and ECTE965/966

Assessment: See Subject Information Sheet those presented here are only a guide. Final examination Individual and group assignments (involving theoretical and practical/laboratory projects) Oral presentation

Subject Description: The aim of this subject is to provide a detailed overview of wireless and mobile communication systems. The following topics will be covered: mobile radio channel characterisation, channel access techniques, basic spread-spectrum techniques, principles of code division multiple access (CDMA), digital mobile networks (including, GSM and third generation mobile networks). As a special case study, this subject will cover in detail the IEEE 802.11 wireless data network standard and its effective use in a campus environment for Internet access.

ECTE995 Content Servers and Caching Technologies

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus

Credit Points: 6

Contact Hours: 2hr Lecture/1hr Tutorial per week

Co-requisites: ECTE991

Assessment: See Subject Information Sheet those presented here are only a guide. Final examination Individual and group assignments (involving theoretical and practical/laboratory projects) Oral presentation

Subject Description: The aim of this subject is to provide a detailed overview of content servers and cache technology. The following topics will be covered: content server technology (including the different classes RADE systems) and their comparative performance in terms of functionality,

cost and reliability; analyse selection criteria for content servers given a functional specification; caching technology, analyse best practice cache dimensioning and selection guidelines.

ECTE996 Multimedia Communications

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 2hr Lecture/1hr Tutorial/1hr Practical per week

Co-requisites: ECTE991

Assessment: See Subject Information Sheet those presented here are only a guide. Final examination Individual and group assignments (involving theoretical and practical/laboratory projects) Oral presentation

Subject Description: The aim of this subject is to provide a detailed overview of multimedia communication systems. The following topics will be covered: image and video coding, motion picture expert group (MPEG) and JPEG standards and their functionality, speech and audio coding, speech and audio coding standards for internet applications (Internet telephony), universal multimedia access (UMA) and MPEG 7.

ECTE997 Web Technology and Applications

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2hr Lecture/1hr Tutorial/Practical per week.

Co-requisites: ECTE991

Assessment: See Subject Information Sheet those presented here are only a guide. Final examination Individual and group assignments (involving theoretical and practical/laboratory projects) Oral presentation

Subject Description: The aim of this subject is to provide a detailed overview of web technologies and applications. The following topics will be covered: real-time streaming technologies, embedded Internet devices, web-based intelligent agent technology, web-application case studies (such as distance and flexible delivery of multimedia education, meta catalogue services etc).

GHMD983 Statistics in Health Research

Autumn Wollongong On Campus

Autumn Wollongong Distance

Credit Points: 6

Contact Hours: 3 hrs/wk (On Campus option)

Subject Description: Introduces basic statistical concepts and methods. Topics covered: collecting data, designing statistical studies, principles of data presentation; exploratory data analysis, probability and statistical models emphasising binomial and normal distributions; categorical data, contingency tables and the Chi-squared distribution; sampling, sample means and the central limit theorem; inference - point estimation, confidence intervals, testing hypotheses; inference about single parameters; comparing means and proportions, analysis of variance, demography.

IACT901 IT Strategic Planning

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 1L, 2T

Exclusions: BUSS907

Subject Description: The subject is essentially about the application of technology for competitive advantage. Throughout the subject, the spotlight will be trained on techniques and frameworks for 'thinking strategically about a company's technological orientation'. A wide spectrum of business and technology issues will be covered that address the problems and issues surrounding the analysis and development of an IT strategic plan.

IACT902 Applied Project Management

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 3 hour lecture/tutorial

Subject Description: This subject deals with the efficient management of a medium size project to ensure that a project meets deadlines and is within its budget. It covers the process of planning, directing and controlling the development of a an IT project. Topics covered will include project management tools, software and techniques; expectations management matrices; and use of people management (the subtle art of delegation and accountability). Students will test the principles on the plan, design and implementation of a medium size project.

IACT904 International Telecommunications Policy Issues

Credit Points: 6

Not on offer in 2005

Subject Description: IACT 904 provides students with an understanding of the policy issues relating to the emergence of political, economic and technological change in international telecommunications. The interdisciplinary foundations of telecommunications policy are examined. Issues in the development of telecommunications policy in Australia and overseas are reviewed as well as the regulatory frameworks adopted by different countries (eg. Australia and the United States) and regions (eg. European Union and South East Asia).

IACT905 Information Technology and Innovation

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 1 hr lecture, 2 hrs tut

Subject Description: IACT 905 provides students with an understanding of the various political, economic, social and technical factors surrounding information technology and the innovation process. This subject addresses key themes such as: the importance of innovation to the economy and the firm; the links between information, information technology and innovation; and, the development of effective national policies to promote industrial innovation.

IACT906 Business On-Line

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 1 hr lecture, 2hrs tut

Assessment: Group Assignment 25% Tutorial Tests x 5 15% Case Studies x 5 20% Exam 40%

Subject Description: This subject aims to provide students with an understanding of e-business in the context of to-days

global business environment. Today most businesses compete in a global environment; a sound business strategy for on-line business is essential to facilitate this. This subject covers key areas of e-business, including: Strategy formulation and implementation; e-branding; service leadership; economics and industry impacts of e-business and Internet effectiveness.

IACT916 Organisational Issues in Information Technology

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 1hr lec, 2 hr tut

Subject Description: Effect on organisational information flows of growth in size and complexity; the management and technological response; information technology as a catalyst in codifying work procedures and creating new organisational structures; hierarchical versus horizontal approaches to information management; implications of broad-band networks for traffic integration.

IACT917 Information Management

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 1hr lecture, 2hrs tut

Pre-requisites: nil

Co-requisites: nil

Assessment: Project Proposal - 5%; Seminar Presentation - 10%; Seminar Report - 10%; Participation - 10%; Major Report/Project - 25%; Exam - 40%.

Subject Description: This subject focuses on the importance of information as a resource, on which the knowledge base of successful organisations is dependent. While the main focus of the subject is information management within the organisation, a broader context is important. National and international issues relating to information access will be addressed. These include: standards relating to electronic storage and retrieval of electronic documents (digital archiving); legal protection for information as an economic good (for example as patents, copyright and other forms of intellectual property); and social and ethical issues (eg privacy and security) relating to information management.

IACT918 Corporate Network Management

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2hr Lecture, 1 hr Tut

Assessment: Major Project 40% Seminar presentation 10% Tutorial paper 10% Final Examination 40%

Subject Description: The subject investigates the documentation and management of telecommunications networks. Topics to be covered include 1. Documenting the Network: requirements capture and specification, functional specification, design specification, documenting the network configuration 2. Managing the Network: influences on the network, management architectures and standards, performance management, fault management, disaster management, managing changes in a network, cost minimisation management 3. Corporate and Regulatory Requirements: management teams, operations and support, standards and protocols.

IACT919 Online Information Services

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 1hr lecture, 2hrs tut

Assessment: 1. Topic resources 15% 2. Critical evaluation e-Resources 10% 3. Group Seminar 15% 4. Group Project 20% 5. Exam 40%

Subject Description: This subject examines the emergence of electronic information supermarkets and the changes in ownership that have taken place within the online information industry as mass media conglomerates have entered the field. Other aspects covered include: the role of government in the development of online databases and networks; the creation of 'value-added' products through re-formatting, marketing and electronic delivery of information; the future of public information sources such as libraries and government data collection and publication agencies in a changing online environment; and the potential of network developments in the delivery of online information resources. Students will be required to use some electronic information services including Australian and International databases and other online information resources.

IACT922 Case Studies in Information Technology Applications

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 1hr lecture, 2hrs tut

Subject Description: IACT922 examines leading edge technological developments and the issues arising from the innovative uses of such technology. This subject covers innovative and new applications of information technology to create services and systems, eg electronic banking, video conferencing, multimedia, EDI and CD-ROM. In order to provide a thorough background and understanding of an application, normally only one case will be studied in the subject in any one semester. Cases that may be covered include, multimedia, EDI and EFTPOS. In 2005, the case study that will be featured in this subject is Location- Based Services (LBS). Subject content will engage students at different levels of understanding from strategic to technical.

IACT924 Corporate Network Design & Implementation

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 2hr Lecture, 1 hr Tut

Assessment: Major project 40% Seminar presentation 10% Tutorial Paper 10% Final Examination 40%

Subject Description: The subject investigates the design and implementation of a telecommunications network plan. Topics to be covered include (1) The Need for Planning and the Planning Process: planning teams, strategic planning, the network plan, security planning and implementation planning. (2) The Design Process: design teams, translating the plan into design criteria, requirements capture and specification, design requirements and criteria, choosing topographies and architectures, evaluating plans (3) The Implementation Process: implementation teams, validating implementation plans, managing people and technology, managing the implementation process. .

IACT926 Information Society, Knowledge Work and Information Technology**Credit Points:** 6**Not on offer in 2005****Assessment:** Examination 30% Seminar presentation 10% Seminar paper 10% Essay 25% Project 25%

Subject Description: The subject examines the concept of 'information society' and its measurement. It also examines the changing structure of the workforce with an investigation of the place and role of knowledge workers in the labour force being a core element. An examination of the trends affecting knowledge workers in Australia, and internationally, with respect to increasing credentialism, life-long learning and issues relating to their education and training will be undertaken. The introduction and application of IT affects each of these areas is therefore another critical component of study.

IACT927 Research Report Part 1**Credit Points:** 6**Not on offer in 2005**

Subject Description: This subject involves undertaking a project. Where possible the projects are related to the research interests of the School and/or staff and are chosen to develop the student's research skills. Each student is required to deliver an oral seminar and to prepare a final thesis on the result of the work undertaken.

IACT928 Research Report Part 2**Credit Points:** 6**Not on offer in 2005****Pre-requisites:** IACT927

Subject Description: This subject involves undertaking a project. Where possible the projects are related to the research interests of the School and/or staff and are chosen to develop the student's research skills. Each student is required to deliver an oral seminar and to prepare a final thesis on the result of the work undertaken.

IACT930 Special Topics in Information and Communication Technology**Credit Points:** 6**Not on offer in 2005**

Subject Description: This subject aims to provide the student with an understanding of topics at the forefront of the discipline. Topics will be selected from areas of interest of staff members or visiting staff members to the Department. These will include topics in the application of information and communication technology.

IACT931 Special Topics in Information and Communication Technology A

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 2L,1T**Exclusions:** IACT403, CSCI324

Subject Description: Topics will be selected from areas of interest of staff members or visiting staff members to the School. These will include topics in the application of information and communication technology. IT is a rapidly

changing area. This subject will allow investigation into topics at the forefront of the discipline.

IACT932 Special Topics in Information and Communication Technology B

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 3hrs**Assessment:** in 2005...Assignments-70; Final exam - 30%

Subject Description: Topics will be selected from areas of interest of staff members or visiting staff members to the Department. These will include topics in the application of information and communication technology. IT is a rapidly changing area. This subject will allow investigation into topics at the forefront of the discipline. In 2005...Students learn how to practically exploit Collaborative Technologies within eBusiness contexts. The concepts of Collaboration and the details of Collaborative Technologies will be investigated and explained from different eBusiness perspectives including the eBusiness Solutions perspective and the Patterns for eBusiness perspective. Examples of focus will include collaborative tools and techniques to support Knowledge Management and to support eLearning within an eBusiness solutions framework. Collaboration patterns will include modern variants of traditional categories including contextual (asynchronous) collaboration and interactive (synchronous) collaboration. Includes a practical focus ie a laboratory component that explores working with advanced collaborative applications including (for example) QuickPlace, Virtual Classroom, and various extensions to the J2EE (Java 2 Enterprise Edition) platform. The subject will exploit collaborative team approaches to practical assignments.

IACT940 Research Methodology

Autumn Wollongong On Campus

Credit Points: 6**Contact Hours:** 2 hrs lecture

Subject Description: This subject introduces students to research methodology. Topics include the purpose of research, formulating a research question, conducting a literature review and writing a research proposal. Students will gain an understanding of the different research methodologies, including quantitative and qualitative analysis. Students will learn how to design an appropriate research plan. Requirements for scholarly writing will also be discussed and the process of undertaking a research project will be analysed. The subject provides an introduction to the research process for students undertaking Honours and postgraduate research projects in the School of Information Technology and Computer Science.

IACT950 Research Report

Spring Wollongong On Campus

Credit Points: 12**Contact Hours:** varies – consultation with supervisor**Pre-requisites:** IACT940

Assessment: Research report of 12,000 words (90%) and seminar presentation (10%)

Subject Description: This subject involves undertaking a project. Where possible the projects are related to the research interests of the School and/or staff and are chosen to develop the student's research skills. Each student is

required to deliver an oral seminar and to prepare a final thesis on the result of the work undertaken.

INFO911 Data Mining and Knowledge Discovery

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 2 hrs/wk

Subject Description: Introduction to Data Mining and Knowledge Discovery, Data Bases and Warehouses, Data Structures, Exploratory Data Analysis Techniques, Association Rules, Artificial Neural Networks, Tree Based Methods, Clustering and Classification Methods, Regression Methods, Overfitting and Inferential Issues, Use of Data Mining packages

INFO912 Mathematics for Cryptography

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 6

Assessment: Final exam 85%, Assignments 15%

Subject Description: Logic: informal propositional logic, circuit theory. Natural Deduction style proofs in propositional & predicate logic. Interpretations & Models. Nonclassical logics. Number Theory: elementary number theory, modular exponentiation, discrete logarithms, Galois arithmetic & polynomials, error correcting codes & cryptography. Elliptic curves, groups for cryptography. Combinatorics: combinatorial probability, Knapsack problem, network and graph theory, combinatorial designs, game theory & linear programming applied to cryptography.

INFO913 Information Theory

Spring Wollongong On Campus

Credit Points: 6

Pre-requisites: MATH121 or MATH122 or (MATH187 and MATH188), or (MATH141 and MATH142).

Co-requisites: nil

Assessment: Assignments 16%, test 20%, final examination 64%

Subject Description: The following is a selection of topics which may vary. The idea of probability, entropy, inequalities involving entropy, data compression, Huffman and Fano codes, information sources, McMillan's theorem, communication and capacity, block codes, Shannon's theorems, applications to other areas which may include communication, linguistics, genetics and financial investment.

ITCS905 Systems

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 2hrs lecture, 2hrs comp lab

Pre-requisites: nil

Co-requisites: nil

Exclusions: MCS9102

Assessment: Assignments (40%) Examinations (60%) Presentation of Project - 10%

Subject Description: This subject establishes the position of Computer Science and Information Technology in a non-programming context. Areas introduced include Human-

Computer Interface, Information Modelling, Intelligent Systems, Networks, Operating Systems, Software Design and Development and Professional ethics, rights and responsibilities.

ITCS907 Java Programming & the Internet

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 3hrs Lecture, 2hrs Comp Lab

Pre-requisites: ITCS902 - Fundamentals of Computer Science B

Co-requisites: nil

Exclusions: MCS9213

Assessment: Assignments - 50% Final examination - 50%

Subject Description: This subject provides: 1. an introduction to the Java language and some of its standard class libraries 2. experience with object oriented design and implementation techniques 3. an understanding of the Internet and its importance to modern software systems. Topics will include: Java language, subset of Java class libraries (windowing, graphics, networking, threads), object oriented design and implementation, Internet issues, basics of TCP/IP protocols, Web technologies, HTML and Javascript, CGI programming, introduction to security issues.

ITCS908 Citizens' Rights in the Information Society

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 1hr lecture, 2 hrs tut

Exclusions: MCS9201

Assessment: 1. 2x Mini report 30% 2. 2x On-line Discussion groups 20% 3. Group report 30% 4. Final report 20%

Subject Description: This subject will examine the information technology industry which encompasses: telecommunications; computing; broadcasting and publishing. It will analyse the encroachment of industry activities that use electronic media on: citizens' rights in matters of data surveillance; freedom of access to information and ownership of intellectual property. The extent to which technical solutions to these problems can and cannot be provided will be discussed and alternative non-technical (eg administrative or regulatory) solutions will also be treated. An investigation of the current legal safeguards, their legislative histories and the need for new legislation will be covered.

ITCS921 Database Design and Implementation

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 3hr lectures

Exclusions: MCS9315

Assessment: 1. Assignments - 3*10% 2. Class tests - 4*5% 3. Final examination - 50%

Subject Description: This subject investigates the process of relational database design starting from conceptual database design, through logical database design up to and including physical database design, database tuning and administration. The topics will include conceptual database design based on Object Modelling Technique, methodologies for conceptual design, view integration, logical database design, database normalization and de-normalization, physical database design, generation of database

applications, database tuning, design of distributed database systems.

ITCS922 Computer Security

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 3hrs Lecture, 1hr Lec/Tut

Exclusions: MCS9361

Assessment: The exam contributes 70% to the final mark
The laboratory work contributes 30% to the final mark

Subject Description: This subject develops the knowledge and skills necessary to identify the security problems that may occur in a distributed computer environment, and then to devise means for countering the threats. Covers: Identification: passwords, challenge-response protocols Private Key Cryptography: classical ciphers, Feistel cryptosystems Public Key Cryptography: RSA, Merkle-Hellman, El-Gamal, Elliptic-Curve cryptosystems Hashing: Birthday paradox, serial and parallel hashing, MD family, keyed hashing Digital Signatures: generic, RSA, El-Gamal, blind, undeniable, fail-stop Key Establishment Protocols: classical key transport, DH agreement, Kerberos, SPX, STS protocol, BAN logic Access Control: MAC, DAC, RBAC, implementations of access control, security kernel, Multics, UNIX, capabilities, access control lists, Network Security: IPsec, viruses, web security, copyright protection .

ITCS929 Concepts and Issues in Healthcare Computing

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 1 hour lecture, 1 hour tutorial + 1 hour lab

Assessment: Research project proposal and related literature review 15% Essay (3000 words) 15% Tutorial discussions 10% Project deliverables-Report 30% Exam 30%

Subject Description: This subject examines the essential concepts of health computing, limitations of technology, issues of privacy and security, economics of healthcare computing, managing healthcare computing projects, evaluation methods in medical informatics, knowledge engineering in health informatics, risk assessment in health informatics and the important issues involved in computer applications in healthcare.

ITCS930 Introduction to Health Informatics

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 1 hour lecture + 2 hour tutorial

Exclusions: ITCS430

Assessment: Assignment 100%

Subject Description: The subject covers clinical decision making and decision support systems and how health informatics and health information systems can assist. Topics include decision-making and decision-support systems in healthcare; the reasons for the necessity of systematically processing data, information and knowledge in medicine and healthcare; benefits and constraints of using information and communication technology; principles of practice evaluation and evidence-based care; evaluation methods; processing and evaluating information including analysis of business processes, bio-statistics and epidemiology; the application of statistics; computer concepts; characteristics of health

information systems; healthcare systems; patient management; primary care systems and knowledge management.

ITCS931 Advance Web Application Development

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 3hrs lecture/tut

Co-requisites: nil

Assessment: Assignments Final exam

Subject Description: This subject is an advanced web applications development subject utilizing the visual basic integrated development environment. Requirements analysis and component solution architectures for e-commerce applications will be studied and solutions implemented utilizing advanced features of VB IDE. See Subject Outline for details

ITCS932 Web Design

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 2hrs lecture, 1hr lab

Pre-requisites: nil

Co-requisites: nil

Assessment: Assignments 100%

Subject Description: This subject introduces students to the design and programming of multi-tier web sites, where dynamic pages present data from databases. Programming will be done with frameworks, such as Apple Web Objects to create web applications that support dynamic web pages and object models of databases. Topics include the design and creation of user process, site architecture, elegant page layouts and simple site navigation. Pages will be designed and content created with professional web tools, such as Adobe web tools. Emphasis is placed on user process, good media design, clean architecture and efficient algorithms.

ITCS933 Software Engineering Requirements and Specifications

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 2hrs lecture

Pre-requisites: nil

Co-requisites: nil

Assessment: Assignments 50% Examination 50%

Subject Description: This subject will demonstrate how software development can be viewed as a kind of engineering - an activity of building useful things to serve recognisable purposes. For software engineers, these useful things are a special kind of machine known as software systems. This subject emphasises the importance of understanding the application domains that software systems interact with and the problems we try to solve in these domains. The subject focuses on writing explicit and precise descriptions known as: (1) Requirements - descriptions of application domains and the problems to be solved there; (2) Specifications - descriptions of the interface between the machine and the application domain. The subject addresses techniques used to record, elicit, and reason about these descriptions. The subject examines the approach to Requirements and Specification techniques taken by a range of systems

engineering methodologies. The concepts of method engineering are introduced and the role of software tools to support this activity is discussed.

ITCS934 Software Process Management

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 3hrs Lecture, 1hrs tut

Assessment: Assignments 50% Examination 50%

Subject Description: Software development is a difficult and challenging task. Apart from the most trivial of problems, the software development process is generally a collaborative rather than an individual effort. To manage the development of complex software artifacts, various principles and practices of software engineering have been formulated. Acquainting students with the principles and practices of managing the software development process is the primary aim of this subject.

ITCS935 Software Engineering Formal Methods

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 3hrs Lecture

Assessment: Assignments 50% Examination 50%

Subject Description: This subject introduces students to formal methods for software specification. The role of formal methods in the software development process is explained, and it is illustrated with case studies of the industrial application of formal methods. The subject uses the Z notation as an example of a formal specification technique, and software tools for the manipulation of Z specifications are introduced. Case studies in the application of formal methods to safety-critical and real-time software systems are presented.

ITCS936 Detailed Design of Integrated Solutions for eBusiness

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 1hr Lecture, 2hrs tut

Pre-requisites: nil

Co-requisites: nil

Exclusions: ITCS436

Assessment: Assignment 50% Exam 50%

Subject Description: This subject develops the students' understanding of the system development process by taking the student through all the phases of analysis design and construction of an eBusiness solution. The methods adopted provide an in-depth understanding of the logistical problems associated with gathering user requirements, and analysis and design, using the 'Patterns for eBusiness' method.

ITCS937 Security, Risk Management and Control in Electronic Commerce

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 1Lecture, 2Tutorial

Pre-requisites: IACT906

Co-requisites: nil

Assessment: Tutorial Participation / Exercises / Discussion; Essay; Risk Assessment Project (Major Group Assignment); Seminar Presentation.

Subject Description: This subject aims to provide students with a deep understanding of the security, risk management and regulatory aspects of e-commerce facing businesses in the on-line business environment. Today most businesses compete in a global business environment; a sound business strategy that addresses these issues is essential. This subject covers key issues in e-commerce, including: security options, trusted authorities, secure payment systems for the Internet, the regulatory environment and Government policy; risk management and control.

ITCS938 eBusiness Technologies

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 1hr lecture, 2hrs tut

Exclusions: IACT305

Assessment: Mid Session Test 10% Assignment 30% Exam 60%

Subject Description: The subject explores the technology being adopted by organisations and the various means of maximising business potential using Internet technology, including eBusiness (B2B, B2C, B2G etc.). The focus of the course is from the IT professional perspective, giving the student a feel for what is required in a commercial business environment. The technology aspects will cover both developing in house software, as well as selecting 'best practice' outsourced options. Comparisons are drawn between the two adoption methods, and the student is engaged by scenario role playing as part of the group assignments.

ITCS940 Multimedia Programming Foundations

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 1hr lecture, 2hrs lab

Assessment: Programming Assignments - 60% Final exam - 40%

Subject Description: This subject provides an introduction to multimedia programming by exploring multimedia infrastructure and developing skills in the programming technologies used in multimedia. Infrastructure includes both how the elements of a multimedia system relate, for example MPEG 21, and foundational concepts used in producing multimedia, for example matrix transforms, simulations, kinematics and the dynamics of motion. Programming technologies include OO programming, 2D graphics, simple image and audio processing in Java; web presentation technologies such as SMILE; multimedia messaging; and an overview of multimedia applications programming interfaces, such as Java media framework and QuickTime, XML, and authoring and scripting languages. This will be studied in the context of the broad range of multimedia techniques and the social and ethical issues involved.

ITCS941 Multimedia Graphics

Autumn Wollongong On Campus

Credit Points: 6**Contact Hours:** 1 Lecture, 2 Lab**Co-requisites:** ITCS940**Assessment:** Assignments (Programming and/or essay) - 60% Exam - 40%

Subject Description: This subject explores the creation of graphics for multimedia applications, covering graphics theory, programming and creative tools. It will commence with an overview of 2D graphics, including an examination of the support for 2D graphics in languages, such as Java 2D and their use in creative tools, such as Adobe Illustrator. It will focus on 3D graphics. Theory topics include basic three dimensional theory, reflection models, shading techniques, rendering, event models of user interaction, parametric representations, anti-aliasing, compositing of images, colour management, ray tracing, radiosity, shadows, texture, colour science and simple animation. Programs will be implemented in a common graphics language used in multimedia, such as OpenGL. The subject will compare and contrast it to other graphics programming technologies used in multimedia, such as MPEG-4 objects, Java 3D and VRML.

ITCS942 Multimedia 3D Modelling and Animation

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 2 hours lecture, 1hour laboratory/ tutorial**Assessment:** Individual Assignments - 30% Group project - 30% Exam - 40%

Subject Description: This subject studies the design, creation and animation of 3D models with a professional 3D modelling tool, such as Lightwave. Model design and creation topics include coordinate frames, solids of revolution, designing objects from a set of 3D primitives, lighting, design for motion, textures, filters, shading, effects, inverse kinematics, rendering and surface modelling. Animation involves the theory of object motion and relative motion between components of an object, the practical problems of rendering images to visualise motion, the creative skills of coordinating image sequences with audio (voice, music and sound effects) and the programming of images and audio into timed sequences to produce movies in multimedia formats, such as MPEG-1 and QuickTime.

ITCS943 Game Design and Programming

Autumn Wollongong On Campus

Credit Points: 6**Contact Hours:** 1 Lec, 2 lab/Tut**Assessment:** Still Life 30% Motion & Metmorphosis 30% Individual 3D Animation Project 30% Participation 10% Exam - 40%

Subject Description: This subject studies the design and implementation of games engines, artificial intelligence and media creation for different genres of games. It starts with the design of game play within the context of different genres of games, human interface devices & display hardware. It examines in detail the technical requirements of games engines both for playing the game and presenting the multimedia to the user. A significant component of the subject is the use of artificial intelligence (expert systems, fuzzy logic and simulation) to make the game appear intelligent to the user.

ITCS945 Multimedia Project

Spring2005/

Autumn2006 Wollongong On Campus

Credit Points: 12**Contact Hours:** Varies – consultation with supervisor.**Pre-requisites:** 24 cp of subjects from Master of Multimedia Technologies with $\geq 75\%$ average**Assessment:** Multimedia Seminars - 10% Project proposal - 10% Regular appraisals - 10% Project report - 70%

Subject Description: This subject involves undertaking a project in an area of multimedia. Projects will be closely aligned to the content of the subjects in the Master of Multimedia, and related to the research interests of the staff. They will be chosen to develop the student's research skills. Each student will deliver a seminar on a recent paper in the area of their project. Also, each student will prepare a final thesis and deliver a multimedia seminar about the work undertaken.

ITCS949 Industry-based Information Technology Project

Annual Wollongong On Campus

Credit Points: 12**Contact Hours:** Regular meetings with supervisor**Assessment:** Project Proposal (10%); Project Planning & Management (10%); Progress Reports (10%); Project Report (60%); Research Seminar /Presentation (10%).

Subject Description: This subject requires that students combine an industry-based working environment with their academic studies, i.e., students will synthesise materials drawn from other subjects within the degree currently being studied; they will apply this synthesis to an in-depth investigation of a complex problem; and they will devise or recommend creative and appropriate solutions to the problem. This will typically take the form of undertaking a substantial industry-based Information Technology project related to their employment within the Information Technology sector. The projects are to be closely aligned with current developments in Information Technology, ideally associated with project development or management. Project proposals from students must identify the area of study, and show how this relates to the course and why it is important; describe a plan for conducting the project, including consideration of appropriate methodology and techniques; and describe the anticipated results and products. Students are required to deliver an oral seminar and to prepare a final thesis on the result of the work undertaken. An academic supervisor will be appointed for each student, who will maintain frequent contact with the student throughout the project.

ITCS950 Patterns for eBusiness**Credit Points:** 6**Not on offer in 2005****Exclusions:** CSCI942**Assessment:** Assignments (60%) Exam (40%)

Subject Description: This subject explores advanced 'pattern-oriented' approaches to the design and development of eBusiness solutions. The 'Patterns for eBusiness' initiative provides a conceptual framework that can be exploited at all stages in the eBusiness software lifecycle. In particular, this conceptual framework and vocabulary bridges the communications gap between business analysts and systems

developers seeking to devise integrated solutions for eBusiness.

ITCS951 Web Services for Dynamic eBusiness

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 1hr lecture, 2 hours tutorials / labs

Exclusions: ITCS451

Assessment: Assignments (60%) Exam (40%)

Subject Description: Web Services are at the core of what is being termed the next generation of eBusiness. The term 'Web Services' refers to the set of standard protocols and associated technologies that enable software applications to communicate with each other across the Internet. To effectively exploit the potential of Web Services requires appropriate effort in the proper design of business processes and service architectures.

MATH902 Solution to Differential Equations By One-Parameter Groups

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2

Assessment: Assignments 20%; presentation 5%; midsession test 10%; final exam 65%.

Subject Description: One-parameter groups and Lie series, linear ordinary differential equations, first and second order ordinary differential equations, linear and non-linear partial differential equations.

MATH903 Mean Periodic Functions

Credit Points: 6

Not on offer in 2005

Subject Description: An introduction to L. Schwartz's theory of mean periodic functions using the transform of J P Kahane. Applications to differential equations.

MATH904 Stability for Partial Differential Equations

Credit Points: 6

Not on offer in 2005

Assessment: Assignments and examination

Subject Description: This subject is concerned with parabolic and elliptic partial differential equations. The main topic is the stability of solutions under changes in initial values or other parameters connected with the equations. Some of the tools that will be used are an analysis of the spectrum for elliptic operators and the Linearization Principle.

MATH905 Functional Analysis and Control Theory

Credit Points: 6

Not on offer in 2005

Assessment: Assignments and examination

Subject Description: This subject introduces several function spaces and then examines how they can be used in the theory of partial differential equations and control theory. Some of the topics considered will be the existence and uniqueness of solutions for hyperbolic and parabolic partial differential equations and the exact controllability for systems governed by the wave equation.

MATH912 Mathematics of Microwave Heating

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2

Subject Description: Electrostatics, Gauss' law, magnetic fields, induction, Maxwell's equations, the damped wave equation, the forced heat equation, solutions of microwave heating for constant conductivity, temperature dependent conductivity, hotspots.

MATH913 Fluid Mechanics and Wave Theory

Credit Points: 6

Not on offer in 2005

Subject Description: Hyperbolic partial differential equations, conservation laws, shallow water equations, dispersive waves, solution theory, gas dynamics, shock waves, flow past bodies, conformal mapping, aerofoil theory.

MATH914 Analytic Dynamics

Credit Points: 6

Not on offer in 2005

Subject Description: Lagrangian and Hamiltonian formulations, symmetry and conservation laws. Regular and chaotic motion. Strange attractors.

MATH915 Applied Non-Linear Partial Differential Equations

Credit Points: 6

Not on offer in 2005

Subject Description: Fluid flow in porous media. Exact solution of related nonlinear boundary value problems. Introduction to inverse scattering transforms and soliton equations. Tests for integrability of a nonlinear equation. Chaotic flows.

MATH916 Heat Conduction and Moving Boundary Problems

Credit Points: 6

Not on offer in 2005

Subject Description: Solutions of the heat equation, semi-infinite media, solution by Fourier series, solutions by heat-balance, classical moving boundary problems, large Stefan number expansions, integral formulation, bounds, integral equations, polynomial approximations, boundary fixing series solutions.

MATH917 Advanced Numerical Analysis

Credit Points: 6

Not on offer in 2005

Subject Description: Solution of Ordinary and Partial Differential Equations. Integration including multiple integration. Solution of Integral Equations. The algebraic eigenvalue problem.

MATH918 Computational Fluid Mechanics

Credit Points: 6

Not on offer in 2005

Subject Description: Finite-difference and finite element methods applied to incompressible inviscid flow problems and incompressible viscous flow problems. Introduction to Boundary-element technique and its application to potential flows. The relationship between these numerical approaches will also be discussed.

MATH921 Advanced Functional Analysis

Credit Points: 6

Not on offer in 2005

Subject Description: Normed spaces, Banach spaces, linear operators, applications of the theory of linear operators to other areas of analysis such as Fourier analysis, quadrature formulae and integral equations.

MATH922 Harmonic Analysis

Credit Points: 6

Not on offer in 2005

MATH923 Measure and Integration

Credit Points: 6

Not on offer in 2005

Subject Description: Lebesgue measure and more general measures, measurable functions, Lebesgue integration and its properties, behaviour of integrals under taking limits, product integrals.

MATH924 Distributions

Credit Points: 6

Not on offer in 2005

Subject Description: Mikusinski's theory of convolution quotients and an introduction to L. Schwartz's theory of distributions. Properties of the space of continuous functions of a single real variable (equipped with a suitable topology) and dual space.

MATH925 Topics in Algebra

Credit Points: 6

Not on offer in 2005

Subject Description: Partially ordered sets, lattices, modular lattices, Boolean Algebras and Boolean rings, orthomodular lattices.

MATH926 Logic and Set Theory

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 2 hours/week

Subject Description: Axiomatic propositional and predicate logic, nonclassical logics, applications to circuit theory and logic programming, introduction to Axiomatic Set Theory.

MATH927 Combinatory Logic

Credit Points: 6

Not on offer in 2005

Subject Description: Introduction to Pure and Illature combinatory logic, relation to lambda-conversion,

functionality, application to propositional and predicate calculus.

MATH928 Advanced Measure Theory

Credit Points: 6

Not on offer in 2005

Subject Description: Construction of outer measures, Hausdorff measures, signed measures, Radon-Nikodym theorem, differentiation of measures.

MATH929 General Topology

Credit Points: 6

Not on offer in 2005

Subject Description: This subject is a systematic discussion of topological spaces and associated concepts which are of fundamental importance in various areas of mathematics. The topics covered will include topologies, bases and sub bases for topologies, separation properties of topologies, product and quotient topologies, and connectedness and compactness. Depending upon students' interests and backgrounds, excursions into the following or other areas are possible: topological groups, programming language semantics, elementary algebraic topology, dimension theory and cardinal invariants.

MATH931 Statistical Behaviour in Dynamical Systems

Spring Wollongong On Campus

Credit Points: 6

Subject Description: Two different statistical phenomena in dynamical systems are considered; recurrence and averaging. In tossing an unbiased coin, recurrence is illustrated by eventually obtaining 'heads', while averaging is illustrated by obtaining approximately the same number of 'heads' and 'tails' over a large number of tosses. The ideas are discussed in the context of systems on an interval, probability and general ergodic theory. Applications will be discussed, and these may include number theory, information theory, mathematical economics, chaos and statistical mechanics.

MATH941 Financial Calculus and Logistics

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 3

Exclusions: Not to count with MATH317

Assessment: Assignments 30%, Exam 70%.

Subject Description: MATH941 is a compulsory subject for students enrolled in the Master of Financial Mathematics degree. The subject consists of two sections: Financial Calculus: This is an introductory mathematical modelling course into the rapidly accelerating area of financial derivatives. It explores the properties of options and provides a theoretical framework within which these options can be valued and hedged. Logistics: This section introduces general principles of mathematical logistics, using inventory modelling as the main example.

MATH942 Numerical Methods in Finance

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 3**Exclusions:** Not to count with MATH321**Assessment:** Laboratory 20% Assignments 10%, Exam 70%.

Subject Description: MATH942 is designed to develop practical skills in numerical and computational mathematics to solve problems that have no analytic solution. Various numerical techniques, such as Newton's iteration method, finite difference and finite element methods, for solving algebraic as well as differential equations are discussed. Methods that are particularly of interest for finance problems such as the Monte Carlo method and the binomial method are also studied.

MATH943 Practitioners' Seminars

Annual Wollongong On Campus

Credit Points: 0**Contact Hours:** 1**Assessment:** Students are required to attend seminars and discuss the topics presented.

Subject Description: MATH943 is designed to allow students enrolled in Master of Financial Mathematics to develop a knowledge base for the state-of-the-art technology and skills required in business and finance. Leading experts in industry relate first-hand experiences of problems and techniques that arise in the financial industry. Students will be required to attend each seminar and discuss the topics presented.

MATH971 Advanced Topics in Applied Mathematics A

Autumn Wollongong On Campus

Credit Points: 6**Contact Hours:** 2

Subject Description: Topics will be selected from the areas of interest of staff members or visiting staff members of the School. In 2000, the special topic will be Elasticity and Fracture Mechanics.

MATH972 Advanced Topics in Applied Mathematics B

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 2

Subject Description: Topics will be selected from the areas of interest of staff members or visiting staff members of the School.

MATH973 Advanced Topics in Pure Mathematics A

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 1

Subject Description: Topics will be selected from the areas of interest of staff members or visiting staff members of the

School. These may include topics in Analysis, Algebra, Logic or Number Theory.

MATH974 Advanced Topics in Pure Mathematics B**Credit Points:** 6**Not on offer in 2005**

Subject Description: Topics will be selected from the areas of interest of staff members or visiting staff members of the School. These may include topics in Analysis, Algebra, Logic or Number Theory.

MATH977 Advanced Topics in Mathematics A**Credit Points:** 6**Not on offer in 2005****MATH978 Advanced Topics in Mathematics B****Credit Points:** 6**Not on offer in 2005****MATH980 Preliminary Topics in Mathematics A**

Autumn Wollongong On Campus

Credit Points: 6**Contact Hours:** 3

Subject Description: A selection of topics will be available from time to time to serve as preliminary material in the Master of Mathematics.

MATH981 Preliminary Topics in Mathematics B

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 3 hrs/week

Subject Description: A selection of topics will be available from time to time to serve as preliminary material in the Master of Mathematics.

MATH982 Preliminary Topics in Mathematics C**Credit Points:** 6**Not on offer in 2005****MATH989 Project Part 1****Credit Points:** 6**Not on offer in 2005****MATH990 Project Part 2**

Spring Wollongong On Campus

Autumn Wollongong On Campus

Credit Points: 6**MATH991 Project**

Annual Wollongong On Campus

Spring2005/

Autumn2006 Wollongong On Campus

Credit Points: 12

MCS9102 Systems

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 4 hours lecture; 2 hours laboratory/tutorial**Exclusions:** ITCS905**Assessment:** Assignments (40%) Examinations (60%)

Subject Description: This subject establishes the position of Computer Science and Information Technology in a non-programming context. Areas introduced include Human-Computer Interface, Information Modelling, Intelligent Systems, Networks, Operating Systems, Software Design and Development and Professional ethics, rights and responsibilities.

MCS9103 Algorithms and Problem Solving

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 2 hours lecture; 1 hour laboratory/tutorial + 3 hours tutorial.**Assessment:** Assignments (40%) Examinations (60%)

Subject Description: This subject introduces the basic concepts of algorithms and their relationship to data structures and problem solving. This subject emphasises problem solving techniques leading to the development of algorithms rather than their implementation or a formal mathematical treatment of algorithms. Topics include sorting, searching and counting problems and the principal algorithms used in their solution. Common approaches to algorithm development and analysis will be examined.

MCS9114 Procedural Programming

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** Spring 4 hours lecture; 2 hours laboratory/tutorial**Exclusions:** ITCS901**Assessment:** Assignments (40%) Examinations (60%)

Subject Description: This subject introduces the procedural approach to program design and implementation. Covers basic language constructs for defining variables of built-in types, flow control constructs and simple I/O. Explores functional decomposition as a design technique, and the implementation of functions. Introduces simple user-defined data types and aggregates.

MCS9124 Object Programming

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 4 hours lecture; 2 hours laboratory**Pre-requisites:** MCS9114 & MCS9103**Exclusions:** ITCS902**Assessment:** Exam - 60% Assignment - 40%

Subject Description: This subject develops skills in object-oriented program design and implementation. Covers characterisation of abstract data types and their realisation as classes. Explores the implementation of standard data types including lists, binary trees, queues. Investigates

implementation of standard searching and sorting algorithms. Provides experience in the use of dynamic data structures.

MCS9201 Information Technology & Citizens' Rights

Autumn Wollongong On Campus

Credit Points: 6**Contact Hours:** 1hr lec, 2hr Tut**Exclusions:** ITCS908

Assessment: 1. Essay 1 15% 2. Essay 2 20% 3. Quizzes 15% 4. Workbook 20% 5. Group Report 30%

Subject Description: This subject will examine the information technology industry which encompasses: telecommunications; computing; broadcasting and publishing. It will analyse the encroachment of industry activities that use electronic media on: citizens' rights in matters of data surveillance; freedom of access to information and ownership of intellectual property. The extent to which technical solutions to these problems can and cannot be provided will be discussed and alternative non-technical (eg administrative or regulatory) solutions will also be treated. An investigation of the current legal safeguards, their legislative histories and the need for new legislation will be covered.

MCS9203 Algorithms and Data Structures

Autumn Wollongong On Campus

Credit Points: 6**Contact Hours:** 3 hour lecture, 2 hour laboratory**Pre-requisites:** MCS9124 or ITCS902**Exclusions:** ITCS903**Assessment:** Assignments 40%; Final Exam 60%

Subject Description: Approaches to analysing algorithm complexity, introduced in earlier subjects, will be reviewed. The use of abstract data types as a design technique, and their implementation in solutions to problems, will form a large part of the subject. The concept of efficient code and ways to measure efficiency (both empirically, by timings, and theoretically) will be studied.

MCS9204 The C Family and Unix

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 4Lecture, 2Lab**Pre-requisites:** MCS9124 or ITCS902**Exclusions:** Not to count with ITCS903**Assessment:** Assignments 40%; Final Examination 60%

Subject Description: Students will be introduced to the C programming language and the UNIX operating system. Particular attention will be paid to the differences that exist between C and C++ and ways in which C++ constructs can be implemented in C. The tools available in the UNIX environment for program development and maintenance will be covered plus the methods of interfacing code to operating system functions, and libraries such as the C++ Standard Template Library.

MCS9205 Development Methods & Tools

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 3Lecture, 2Lab**Pre-requisites:** MCS9124**Exclusions:** ITCS917**Assessment:** 50% final examination. 50% for assignments

Subject Description: To provide students with practical skills and knowledge of systems analysis and design techniques. Students will be given instruction in a particular, standard analysis and design method. The techniques and phases of the selected method will be treated thoroughly and in detail. The instruction will utilise case studies, and it will be supported by Computer Aided Software Engineering (CASE) technology. In addition to individual learning, students will be introduced to group analysis and design activities.

MCS9212 Interacting Systems

Autumn Wollongong On Campus

Credit Points: 6**Contact Hours:** 3 hours lecture, 2 hours laboratory/tutorial**Pre-requisites:** MCS9102 or ITCS905**Exclusions:** ITCS909**Assessment:** Assignments 40% Final Exam 60%

Subject Description: This subject examines the relationships between the program and its environment: with the user via a consideration of HCI and graphical interfaces; with the computer via the operating system; with data via the file system and with other programs via the network.

MCS9213 Java Programming & the Internet

Autumn Wollongong On Campus

Credit Points: 6**Contact Hours:** 3Lecture, 2Lab**Pre-requisites:** MCS9124**Exclusions:** ITCS907**Assessment:** Assignments 50%; Exams 50%

Subject Description: This subject provides: 1. an introduction to the Java language and some of its standard class libraries 2. experience with object oriented design and implementation techniques 3. an understanding of the Internet and its importance to modern software systems. Topics will include: Java language, subset of Java class libraries (windowing, graphics, networking, threads), object oriented design and implementation, Internet issues, basics of TCP/IP protocols, Web technologies, HTML and Javascript, CGI programming, introduction to security issues.

MCS9214 Distributed Systems

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 3Lecture, 2Lab**Assessment:** Assignments 40%; exam 60%

Subject Description: This subject introduces basic concepts of internetworking and distributed systems. Physical communications media are introduced, then the focus shifts to network protocols (TCP/IP), then client-server model and the sockets interface. Other topics to be covered include network addressing and security (firewalls). Real-world programming

examples from Unix and Windows-NT environments will be presented. Students will undertake laboratory exercises on Linux-based PCs.

MCS9235 Database Systems

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 3Lecture, 2Lab**Pre-requisites:** MCS9124 or ITCS902

Assessment: 1. Assignments- 25% 2. Class tests - 15% 3. Final examination- 60%

Subject Description: This subject investigates three major areas of modern database systems: 1. design of relational databases br 2. programming of relational databases br 3. concurrency control and data recovery in database systems br Topics will include: Introduction to conceptual database modelling; Principles of relational database model; Structured Query Language (SQL) and its procedural extensions (PL/SQL, Embedded SQL, JDBC); Database server programming; Normalization of relational databases; and Transaction management and recovery in database systems

MCS9301 Information and Communication Security Issues

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 1hr Lec, 2hr Tut**Pre-requisites:** MCS9201 or ITCS908

Assessment: Assignment 1- 10%; Seminar presentation + seminar - 40% Exam - 50%

Subject Description: This subject will examine current controls, both legislative and technical, aimed at maintaining data integrity, ease of access to information, and protection of ownership, in the light of on going developments in computer security, multimedia communications, international electronic networks, and electronic publishing. The subject will cover communication security; issues relating to the monitoring of international agreements; OECD guidelines for security of information; maintaining privacy provisions; password security; and future IT developments and their implications for monitoring intellectual property rights and communication security.

MCS9303 World Wide Networking

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 1Lec, 2Tut/Lab**Pre-requisites:** MCS9102**Exclusions:** ITCS923**Assessment:** Exam - 40% Assignment - 60%

Subject Description: This subject investigates the issues list in the objectives below within the context of world wide networking. Emphasis will be placed on group work with students required to participate in problem solving communications tasks. Web based activities will be an essential element in the conduct of this subject. Other activities may include: the setting up and conduct of a video-conference with students at another University, the running of a bulletin board or Internet mailing list or the maintenance of a World Wide Web site. Contributions to this subject have been made by several members of staff within the School.

MCS9315 Database Design and Implementation

Autumn Wollongong On Campus

Credit Points: 6**Contact Hours:** 3Lecture**Pre-requisites:** MCS9235**Exclusions:** ITCS921**Assessment:** 1. Assignments - 3*10% 2. Class tests - 4*5% 3. Final examination - 50%

Subject Description: This subject investigates the process of relational database design starting from conceptual database design, through logical database design up to and including physical database design, database tuning and administration. The topics will include conceptual database design based on Object Modelling Technique, methodologies for conceptual design, view integration, logical database design, database normalization and de-normalization, physical database design, generation of database applications, database tuning, design of distributed database systems.

MCS9317 Database Performance Tuning

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 3Lecture, 2Lab**Pre-requisites:** MCS9235**Assessment:** Assignments 20% Tests 20% Final examination 60%

Subject Description: The subject addresses the performance problems of relational database systems. In particular, it presents optimisation of query processing in relational database systems, performance tuning of database applications, transaction processing in database systems, optimisation of transaction processing, performance tuning of relational database servers, performance tuning of three tier database applications. Laboratory classes demonstrate the techniques used for elimination of performance problems in database systems. Oracle 9i database management system is used for demonstration purposes and all practical work in the subject.

MCS9322 Systems Administration

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 3hrs lectures**Pre-requisites:** MCS9204**Assessment:** Assignments 40%; Final Examination 60%

Subject Description: This subject will cover the practical and theoretical aspects of system administration. The various resource areas which have to be managed will be discussed and examined, and the possible methods of monitoring and controlling them in various systems will be investigated. The features unique to both single processor and networked systems will be investigated.

MCS9323 Artificial Intelligence

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 3hr lec, 1hr Lab**Pre-requisites:** MCS9114**Assessment:** Final Examination 50% Laboratory

Assignments 20% Term project 30%

Subject Description: This subject reviews the main components of Artificial Intelligence research including knowledge representation, reasoning, natural language understanding, and perception. Focuses on Expert Systems and the computational models they embody. Introduces the programming languages Lisp and Prolog.

MCS9324 Human Computer Interface

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 2Lecture, 1Tutorial**Co-requisites:** nil**Assessment:** Final Exam 40% Assessment 60%

Subject Description: This subject examines the design evaluation and implementation of interactive computing systems for human use (HCI) and the major phenomena surrounding them. Also considered are joint performance of tasks by humans and machines, structure of human machine communication, social and organizational interactions with machine design, human capabilities to use machines including their learnability as well as algorithms and programming of the interface itself, engineering concerns that arise in designing interfaces, the process of specification design and implementation of interfaces and design tradeoffs.

MCS9334 Real Time Programming

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 3 hrs Lec, 1hrs Lab**Pre-requisites:** MCS9114**Assessment:** Five assignments at 8% each = 40% Final examination (3 hours) = 60%

Subject Description: The emphasis of this subject is on low-level interfacing of computer peripherals in high-level languages. Students will be required to complete a number of practical assignments. Topics to be covered will include (a) Motorola MC68HC12 Programmer's model, (b) interrupt handling, (c) I/O registers, (d) data input, error detection and correction, filtering, storage and output, (e) programmable chips for digital, serial, analog and disk I/O, graphics, memory management and real-time clocks. It should be noted that according to Course Rule 003 {Interpretation Point 2 (t)} each credit point for a single session subject has the value of about 2 hours per week including class attendance. Therefore, the amount of time spend on each 6 credit point subject should be at least is at least 12 hours per week, which includes lectures/tutorials/labs etc.

MCS9337 Organisation of Programming Languages

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 3hrs lectures**Pre-requisites:** MCS9124**Assessment:** Assignments 40% Exam 60%

Subject Description: This subject develops an understanding of major programming paradigms including imperative, functional, logical, object-oriented, and procedural paradigms. Introduces formal language specification. Covers language definition and syntax; data types and data

structures, control structures and data flow; run-time considerations; and interpreted languages.

MCS9361 Computer Security

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 3Lecture

Pre-requisites: MCS9204 or ITCS903

Exclusions: ITCS922

Assessment: The exam contributes 70% to the final mark
The laboratory work contributes 30% to the final mark

Subject Description: This subject develops the knowledge and skills necessary to identify the security problems that may occur in a distributed computer environment, and then to devise means for countering the threats. Covers: Identification: passwords, challenge-response protocols Private Key Cryptography: classical ciphers, Feistel cryptosystems Public Key Cryptography: RSA, Merkle-Hellman, El-Gamal, Elliptic-Curve cryptosystems Hashing: Birthday paradox, serial and parallel hashing, MD family, keyed hashing Digital Signatures: generic, RSA, El-Gamal, blind, undeniable, fail-stop Key Establishment Protocols: classical key transport, DH agreement, Kerberos, SPX, STS protocol, BAN logic Access Control: MAC, DAC, RBAC, implementations of access control, security kernel, Multics, UNIX, capabilities, access control lists, Network Security: IPsec, viruses, web security, copyright protection .

MCS9457 Advanced Topics in Database Management

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 2hr Lecture

Pre-requisites: MCS9315

Exclusions: CSCI957

Assessment: Implementation project (20%) mini research project (30%) final examination (50%)

Subject Description: This subject covers two advanced topics from modern database management systems: object-oriented databases and transaction management in database systems. The topics include the details such as design and implementation of object-oriented database systems, hybrid transaction management, optimistic transaction management, nested transactions, management of long transactions, and management of transaction in distributed systems.

STAT901 Modern Inference

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2 hrs/wk

Subject Description: Introduction to programming in S-Plus; bootstrap methods; Monte-Carlo methods; permutation tests; nonparametric regression; the sign, Kruskal-Wallis and Spearman tests and extensions of them; ties.

STAT902 Advanced Data Analysis

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2 hrs/wk

Assessment: Assignments 30%; exam 70%.

Subject Description: A selection of topics from: Regression model building and checking; Causal modelling; Cluster analysis; Multi-dimensional scaling; Log-linear models; Generalised linear models; Time series methods; Principal components, Factor analysis; Canonical correlations; Statistical computer packages.

STAT903 Survey Design and Analysis

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 2 hrs/wk

Assessment: Assignments 20%, reports 10%; exam 70%

Subject Description: Survey methods - survey development; Cluster and multi-stage sampling; Repeated and longitudinal surveys; Non-sampling errors; General methods of variance estimation; Small area estimation; Non-response adjustment; Analysis of complex survey data; Report writing.

STAT904 Statistical Consulting

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 2 hrs/wk

Subject Description: Project management; Client liaison; Problem identification; Consulting ethics and principles; Sources of data; Choosing design and analysis procedures; Common problems in statistical consulting; Setting sample size - power calculations; Consulting case studies; Report writing.

STAT905 Time Series

Credit Points: 6

Not on offer in 2005

Subject Description: Prediction theory; Linear models: identification, estimation, diagnostic checking; Multivariate models.

STAT906 Experimental Design

Credit Points: 6

Not on offer in 2005

Subject Description: The general linear model; Complete and incomplete block designs; The construction of optimal block designs; Factorial designs and fractional factorial designs; Response surface methodology.

STAT920 Stochastic Methods in Finance

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 3

Assessment: Assignments 30%; exam 70%.

Subject Description: STAT920 covers necessary probabilistic concepts and models such as linear stochastic models, nonlinear stochastic models and nonlinear chaotic models used in finance. Topics discussed in this subject also include martingale methods, stochastic processes, optimal stopping, the modeling of uncertainty using a Wiener process, Ito's formula as a tool of stochastic calculus, fundamentals of stochastic differential equations and the applications of these methods to finance.

STAT921 Multiple Regression and Time Series

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 3**Assessment:** Assignments 40%; exam 60%.

Subject Description: STAT921 is an advanced course covering relationships between variables and the analysis of observational studies and designed experiments. Topics covered include multiple linear regression, non-linear regression, generalised linear regression, ARIMA models, forecasting of time series and Box-Jenkin's approach.

STAT922 Statistical Inference and Multivariate Analysis

Autumn Wollongong On Campus

Credit Points: 6**Contact Hours:** 3**Exclusions:** Not to count with STAT333.**Assessment:** Assignments 30%; exam 70%.

Subject Description: STAT922 covers inference (estimation and hypothesis testing) in both one and many dimensions. Topics covered include transformations, maximum likelihood and minimum variance unbiased estimation, the likelihood ratio, score and Wald tests, vector random variables, the multivariate Normal distribution, principal components analysis, factor analysis and discriminant analysis.

STAT923 Operations Research and Applied Probability

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** 3**Exclusions:** Not to count with STAT304**Assessment:** Assignments 30%, Exam 70%

Subject Description: The operations research component includes linear programming, simplex algorithm, duality, sensitivity analysis, transportation and assignment problems, integer programming, and use of computer software. The applied probability component includes Markov chains, birth and death processes and queuing theory.

STAT941 Statistical Quality Control 1**Credit Points:** 6**Not on offer in 2005**

Subject Description: Why control charts?; Level of variability; Differences between specification limits and control limits; Deming's philosophy; Quality circles; Cause and effect diagrams; Pareto diagrams; Control charts; Benefits of using control charts; Shewhart charts, such as x-charts, c-charts, p-charts, R-charts, s-charts; Cumulative sum (CUSUM) control charts; Exponentially weighted moving averages; Moving average and moving range charts; Average run length of the above mentioned control charts; Comparison of charting methods; Process capability indices; Determining process capability using control charts; Some case studies.

STAT942 Design and Analysis For Quality Control**Credit Points:** 6**Not on offer in 2005**

Subject Description: Experimental design; Principles of design; Importance of randomisation; Randomised block designs; Factorial designs; Fractional factorials; Taguchi's philosophy and how it relates to experimental design; Introduction to variance components; Fixed models as opposed to random (mixed) models; Estimation of variance components; Evolutionary processes.

STAT943 Statistical Quality Control 2**Credit Points:** 6**Not on offer in 2005****STAT944 Regression and Observational Studies****Credit Points:** 6**Not on offer in 2005**

Subject Description: Linear regression; Regression diagnostics; Multicollinearity; Residual analysis; Response surface methodology; Logistic regression; Planning of observational studies; Effects of matching and covariates as controls. Concepts of confounding.

STAT949 Statistical Thinking**Credit Points:** 6**Not on offer in 2005**

Subject Description: The importance of variability; Why statistics?; Statistics and quality; Exploratory data analysis; Numerical and graphical summaries; Measures of location and spread; Elementary probability; The Binomial; Poisson and Normal Distributions; The role of the Central Limit Theorem in statistics; The nature and purpose of statistical inference; Point estimation and confidence intervals; Concepts of hypothesis testing; Simulation techniques; Sampling methods; Elementary control charts.

STAT955 Sample Surveys and Experimental Design (With Project)

Autumn Wollongong On Campus

Credit Points: 8**Contact Hours:** 2 hours of lectures, one hour of tutorial

Pre-requisites: STAT232, or STAT252 at Credit level or better, or STAT151 at Credit level or better, or PSYC232 at Credit level or better, or ECON121 at Credit level or better, or (STAT131 and STAT231 both at Credit level or better)

Exclusions: Not to count with STAT335 or STAT355.

Assessment: Assignments 20%, project 25%; exam 55%. (Note: students should expect to spend approximately 4 hours/week on the project.)

Subject Description: Experimental designs: completely randomised, randomised complete block, Latin Square, factorial; the analysis of the data arising from these designs. Steps in conducting a sample survey; methods such as simple random sampling and stratified sampling, number raised and ratio estimation. Statistical computing is an essential part of this subject. Project: Students will undertake a project that relates the work of this subject to an investigation in their field of major interest.

STAT971 Preliminary Topics in Statistics A

Autumn Wollongong On Campus

Credit Points: 6

Contact Hours: 2

Subject Description: A selection of topics will be available from time to time to serve as preliminary material in the Master of Statistics.

STAT972 Preliminary Topics in Statistics B

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 6

Contact Hours: 2

Subject Description: A selection of topics will be available from time to time to serve as preliminary material in the Master of Statistics.

STAT981 Advanced Topics in Statistics A

Autumn Wollongong On Campus

Credit Points: 6

Subject Description: Current research interests of staff of the School of Mathematics and Applied Statistics and visitors to the School.

STAT982 Advanced Topics in Statistics B

Credit Points: 6

Not on offer in 2005

Subject Description: Current research interests of staff of the School of Mathematics and Applied Statistics and visitors to the School.

STAT983 Advanced Topics in Statistics C

Credit Points: 6

Not on offer in 2005

Subject Description: Current research interests of staff of the School of Mathematics and Applied Statistics and visitors to the School.

STAT990 Minor Project

Spring Wollongong On Campus

Autumn Wollongong On Campus

Credit Points: 6

STAT991 Project

Annual Wollongong On Campus

Spring2005/

Autumn2006 Wollongong On Campus

Credit Points: 12

LAW SUBJECT DESCRIPTIONS

CMP 901 Strategy and Sea Power**Credit Points:** 8**Not on offer in 2005****Pre-requisites:** Nil**Co-requisites:** Nil**Assessment:** Class presentations, Research Paper

Subject Description: The course will cover the following issues: the Mahanian legacy, the great White Fleet, the Gunboat Diplomacy, the Washington Disarmament Conference, Power in the Pacific, the Pacific War, the Cold War and the Nuclear Age, ANZUS and the Radford-Collins Agreement, the Asia-Pacific Regional Context, Lehman and the Forward Maritime Strategy, the New World Order.

CMP 902 Law of the Sea**Credit Points:** 8**Not on offer in 2005****Pre-requisites:** Nil**Co-requisites:** Nil**Assessment:** Class presentations, Research Paper

Subject Description: The subject will cover the following: the history of international ocean management regimes; the 1982 Law of the Sea Convention; the Law of Armed Conflict of the Sea; the international legal regulation of marine resources; the protection of the marine environment; and law and order at sea.

CMP 903 Australian Maritime Power**Credit Points:** 8**Not on offer in 2005****Pre-requisites:** Nil**Co-requisites:** Nil**Assessment:** Class presentations, Research Paper

Subject Description: The course deals with the historical evolution of Australian maritime power from a naval perspective. Topics covered include: international oceans politics; the uses of the sea; the development of national oceans policy; regional maritime policy issues in the Asia-Pacific; maritime and security arrangements in the Asia-Pacific region; Australia's maritime science and technology plan; co-operative arrangements for regional maritime surveillance and maritime transport.

CMP 904 Maritime Regulation and Enforcement

Spring Wollongong On Campus

Credit Points: 8**Contact Hours:** Spring**Pre-requisites:** Nil**Co-requisites:** Nil

Assessment: Syndicate work and other class presentations, research paper.

Subject Description: The course focuses on the specific enforcement and regulatory powers, and responsibilities of states in the various maritime zones of jurisdiction, i.e. the territorial sea, the EEZ, continental shelf and high seas. Relevant policy and legal considerations in the development and enforcement of maritime jurisdiction will be covered.

CMP 905 Legal Regulation of Shipping**Credit Points:** 8**Not on offer in 2005****Pre-requisites:** Nil**Co-requisites:** Nil

Subject Description: The course addresses the legal and regulatory frameworks relevant to shipping. It comprises two main elements: 1. The International Regulatory Framework, including: the Law of the Sea Convention; the role of the IMO; IMO related conventions; regional regulatory frameworks; and the arrest and detention of ships. 2. The Australian Domestic Regulatory Framework, including: the constitutional framework; the administrative framework; the Navigation Act; marine insurance; and salvage.

CMP 906 Comparative Oceans Policy**Credit Points:** 8**Not on offer in 2005****Pre-requisites:** Nil**Co-requisites:** Nil

Subject Description: The course analyses policy implications of increased sea use, comprising the following aspects: the conceptual basis for an integrated national ocean policy; the integration of national sectoral interests such as marine industries and other stakeholders; integrating ocean and coastal management; Australia's Oceans Policy; ocean policy developments in other parts of the world; and regional cooperation and management of shared ocean space, especially within the Southeast Asia.

CMP 907 Shipping and Ports**Credit Points:** 8**Not on offer in 2005****Pre-requisites:** Nil**Co-requisites:** Nil

Subject Description: The subject addresses the key economic, geographic and policy aspects of international and domestic shipping and port operations. Key content includes global and Asia-Pacific trade, the emergence of a system of hub ports, and introduction to shipping and port/logistics economics, types of shipping, technology trends in shipping and port operations, flagging out of merchant fleets and port state control issues.

CMP 908 Contemporary Maritime Issues in the Asia-Pacific Region**Credit Points:** 8**Not on offer in 2005****Pre-requisites:** Nil**Co-requisites:** Nil

Subject Description: This course deals with the leading maritime issues in the Asia-Pacific region, including: maritime territorial disputes (South China Sea, Taiwan, East China Sea, Kuriles); piracy/sea robbery; archipelagic sea lane passage; military operations in the EEZ; confidence-building; naval cooperation and competition; and maritime terrorism.

CMP 909 International Marine Environmental Law and Management

Credit Points: 8

Not on offer in 2005

Pre-requisites: Nil

Co-requisites: Nil

Subject Description: The subject covers International marine environmental law and conventions, including Part XII of the Law of the Sea Convention and Agenda 21; the specific concerns with, and importance of, the marine environment; important international conventions impacting upon the use and protection of the marine environment, and the domestic and international legal and policy implications of those conventions; the state of world and regional fisheries, and the legal and political efforts to sustain fish stocks.

CMP 910 Selected Topic in Maritime Studies

Autumn	Wollongong	Distance
Spring	Wollongong	Distance

Credit Points: 8

Contact Hours: Autumn , Spring

Pre-requisites: Nil

Co-requisites: Nil

Subject Description: 10,000 word research paper in an approved topic in maritime studies.

CMP 911 Research Project in Maritime Studies

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus

Credit Points: 8

Contact Hours: Autumn , Spring

Pre-requisites: Nil

Co-requisites: Nil

Assessment: Research Paper

Subject Description: 10,000 word research paper in an approved topic in maritime studies.

CMP 912 Minor Thesis in Maritime Studies

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus

Credit Points: 16

Contact Hours: Autumn , Spring

Pre-requisites: Nil

Co-requisites: Nil

Assessment: Thesis

Subject Description: 20,000 word minor thesis in an approved topic in maritime studies.

CMP 913 Integrated Marine and Coastal Management

Spring	Wollongong	On Campus
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Credit Points: 8

Contact Hours: Spring

Pre-requisites: Nil

Co-requisites: Nil

Assessment: Syndicate work and other class presentations
Research Paper

Subject Description: The subject covers: 1. The processes and importance of marine and coastal environments 2. Marine and coastal resources, ecological systems and ecosystem services. 3. The factors involved with integrated coastal zone management. 4. Planning for integrated management: roles, components, parties and processes.

CMP 914 International Fisheries Law

Spring	Wollongong	On Campus
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Credit Points: 8

Contact Hours: Spring

Pre-requisites: Nil

Co-requisites: Nil

Assessment: Syndicate work and other class presentations
Research paper

Subject Description: The course addresses: 1. The Law of the Sea Convention framework for international fisheries law; 2. Shortcomings of the Law of the Sea framework; 3. Post-Law of the Sea fisheries instruments; 4. Fisheries enforcement; 5. Regional fisheries management organisations; 6. Fisheries sector dispute settlement.

CMP 915 Fisheries Management Law

Credit Points: 8

Not on offer in 2005

Pre-requisites: Nil

Co-requisites: Nil

Assessment: Syndicate work and other class presentations
Research paper

Subject Description: The subject addresses: 1. Fisheries allocation and property rights and stakeholders; 2. Implementation instruments and national policy considerations; 3. National enforcement regimes; 4. Dispute settlement and litigation; 5. Ecological assessment of fisheries.

LAW 930 Research Project in Natural Resources Law

Credit Points: 24

Not on offer in 2005

Pre-requisites: 24 credit points at 900 level from the Natural Resources Law & Policy course

Co-requisites: 24 credit points at 900 level from the Natural Resources Law & Policy course

Assessment: Research essay

Subject Description: Content as arranged.

LAW 960 Legal Studies For Professionals

Spring	Wollongong	On Campus
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Credit Points: 6

Contact Hours: Spring 2 x 1L, 1S

Assessment: On-line component, research essay, class participation, examination

Subject Description: The subject is divided into four components. The first is designed to develop a grasp of the nature and processes of law; the second introduces the area of commercial transactions; the third considers business structures; and the fourth explores the range of legal duties placed on professionals.

LAW 969 Occupational Health and Safety Law

Autumn Wollongong On Campus

Credit Points: 6**Contact Hours:** Autumn 4 day intensive (dates TBA)**Assessment:** Class participation, research essay and examination**Subject Description:** This subject is concerned with the study of the legal regime governing health, safety and welfare of people at work in New South Wales. Its focus will be the Occupational Health and Safety Act 2000 and the Occupational Health and Safety Regulations 2001.**LAW 970 Banking and Financial Institutions Law**

Autumn Wollongong On Campus

Credit Points: 6**Contact Hours:** Autumn 2S**Pre-requisites:** Bachelor of Commerce specialising in Finance or approval by the Head of Department**Assessment:** Refer to subject outline**Subject Description:** The legal framework establishing, controlling and regulating financial institutions, including the Reserve Bank, banks, money market dealers and securities. The law dealing with financial money market instruments, particularly bills of exchange, promissory notes and cheques. Legal basis of the relationship between financial institutions and their clients. The law of securities - nature and types of securities; capacity and authority of borrowers entering transactions; remedies available to secured lenders.**LAW 993 Research Essay**

Spring Wollongong On Campus

Autumn Wollongong On Campus

Credit Points: 8**Contact Hours:** Spring 2S, Autumn 2S**Assessment:** Performance is assessed by progress on a number of tasks, with the greatest weight given to the final research paper. The research paper will be assessed by two persons appointed by the Dean on the recommendation of the subject co-ordinator. Each examiner must provide a written report which will be made available to the students and the supervisor.**Subject Description:** A supervised research paper of no more than 10,000 words. Information may be obtained from the Postgraduate Co-ordinator or Sub-Dean regarding the research essay.**LAW 994 Legal Research Proposal**

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 8**Contact Hours:** Autumn, Spring**Co-requisites:** LAW993 or equivalent**Subject Description:** This subject will provide students with the skills to develop a research proposal suitable for research at Master's level, and to choose an appropriate methodology for carrying out the research. It will explore the range of approaches available to legal researchers at a time when legal research is in a considerable state of flux. Traditional approaches based on detailed analysis of case law and legislation will be compared and contrasted with socio-legal

approaches which rely on theoretical and methodological inputs from other disciplines. In particular, the relevance of empirical research to the issues of implementation and law reform, both qualitative and quantitative, will be examined. After completing the subject, students will be in a position to pursue more detailed studies in relation to their methodology of choice.

LAW9317 E-Commerce Law

Spring Wollongong On Campus

Credit Points: 6**Contact Hours:** Spring 2S**Pre-requisites:** 24 credit points of Master of Electronic Commerce**Co-requisites:** Nil**Exclusions:** LAW317, LLB317**Assessment:** Class participation, class tests, research essay or class presentation and report.**Subject Description:** The subject explores some of the more significant legal and regulatory issues and developments that e-commerce gives rise to. The main perspective is that of the on-line business and its risk management needs for achieving business success. This brings the interests of suppliers, consumers and regulators into focus. We begin with an overview of the cyber-marketplace and relevant public policy considerations. Then we adopt a timeline approach focusing on those issues and developments most relevant at start up and once the business opens for on-line trading. Start up introduces intellectual property law, privacy and transactional security issues and responses. On-line trading raises identity, contract, consumer protection, payment systems and jurisdictional issues and responses. Finally, we turn to an area for special study. Students will be invited to select that area, for example from among the issues and developments relating to the infrastructure constituting the cyber-marketplace.**LAW9380 Law For Environmental Managers**

Spring Wollongong On Campus

Credit Points: 8**Contact Hours:** Spring 2S, 1L**Pre-requisites:** 72 credit points in a discipline other than Law or enrolled in MEnvSc**Co-requisites:** Nil**Exclusions:** LAW334 or LAW380**Assessment:** Take-home examination and a final examination.**Subject Description:** The goal of this subject is to enable candidates to develop a basic, critical understanding of the law in relation to environmental management in Australia, with particular emphasis on NSW, including the limitations of legal instruments in achieving environmental management and policy objectives.**LEGL910 International Cooperation in Crime Prevention**

Autumn Wollongong On Campus

Credit Points: 4**Contact Hours:** Autumn WebCT and 2 days compulsory intensive classes**Assessment:** Class presentation, assignments and research

paper

Subject Description: The politics of international relations, regional security and transnational crime and their historical background. UN institutions including the proposed International Criminal Court, different regional institutions, anti-corruption mechanisms, whistleblowing, transparency in governance and the role of civil society.

LEGL911 International Criminal Law

Autumn Wollongong On Campus

Credit Points: 4

Contact Hours: Autumn WebCT and 2 days compulsory intensive classes

Assessment: Class presentation, assignments, research paper

Subject Description: International law related to national extraterritorial regulatory and enforcement jurisdiction, mutual assistance and extradition, and international crimes and tribunals. Includes an overview of relevant international instruments such as the UN Narcotic Drugs and Psychotropic Substances Treaty, the OECD Convention Bribery, the Draft UN Convention against Transnational Organised Crime, the Law of the Sea Convention, and bilateral instruments such as extradition treaties and mutual assistance treaties.

LEGL912 Comparative Criminal Justice

Autumn Wollongong On Campus

Credit Points: 4

Contact Hours: Autumn WebCT and 2 days compulsory intensive classes

Assessment: Class presentation, assignments, research paper

Subject Description: Common Law, civil law and shari'a criminal justice systems are compared with the objective of developing an appreciation of different legal systems, cultures and ethics. International criminal procedure is examined including international policing cooperation.

LEGL920 Transnational Corporate Crime

Spring Wollongong On Campus

Credit Points: 4

Contact Hours: Spring WebCT and 2 days compulsory intensive classes

Co-requisites: LEGL911 International Criminal Law

Assessment: Class presentation, assignments, research paper

Subject Description: Fraud, money laundering, tax evasion and tax havens, securities offences, corporate structures including holding companies and subsidiaries, directors' responsibilities. Case studies and examples provided by relevant guest lecturers from government and commerce.

LEGL921 Crime and Transnational Financial Transactions

Autumn Wollongong On Campus

Credit Points: 4

Contact Hours: Autumn WebCT and 2 days of compulsory intensive classes

Co-requisites: LEGL911 International Criminal Law

Assessment: Class discussions, assignments, individual essay

Subject Description: The subject focuses on the implications of fraud for the financial sector. It entails analysis of fraudulent activity in financial transactions, e.g. letters of credit, credit cards, electronic transfers, insurance, banking codes, and other banking procedures, together with the rules governing the disclosure of account holders and other forms of government record tracing.

LEGL922 Financial Investigations Practice and Procedure

Spring Wollongong On Campus

Credit Points: 4

Contact Hours: Spring WebCT and 2 days compulsory intensive classes

Co-requisites: LEGL911 International Criminal Law

Assessment: Class discussions, assignments, research essay

Subject Description: This subject focuses on the investigation of accounts and other relevant financial information held by financial organisations. It entails analysis of financial and other account information, auditing of accounts, and accountant and lawyer ethics and responsibilities eg. in relation to confidentiality, search warrants and subpoenas.

LEGL923 Crime and Information Technology Regulation

Spring Wollongong On Campus

Credit Points: 4

Contact Hours: Spring WebCT and 2 days compulsory intensive classes

Co-requisites: LEGL911 International Criminal Law

Assessment: Class discussions, assignments and research essay.

Subject Description: The subject focuses on the implications of developments in information technology for corporate and governmental security. It entails analysis of E-commerce regimes, theft of services and intellectual property and information piracy, dissemination of offensive materials, money laundering, vandalism, illegal interception, fraud, mobility and location of crime together with the rules governing the disclosure of account holders by Internet Service Providers (ISP) and forensic skills.

LEGL930 Legal Research and Writing

Autumn Wollongong On Campus

Credit Points: 2

Contact Hours: Autumn WebCT and compulsory intensive class

Assessment: A case summary; a web-based exercise; small group exercise

Subject Description: The subject is intended to introduce students to the particular characteristics of legal research and writing relevant to the Master of Transnational Crime Prevention (MTCP) program. The subject content is similar to that offered by the Faculty in LLB9395 Legal Research and Writing.

LEGL931 Computing and Statistical Skills

Autumn Wollongong On Campus

Credit Points: 2**Contact Hours:** Autumn WebCT and compulsory intensive class**Assessment:** Practical exercises and assignments

Subject Description: The subject is intended to introduce students to the application of information technology in legal and financial work, including information retrieval, litigation support, property (land) transactions, company searches, court and office management and the use of expert systems. The subject content is similar to that offered by the Faculty in LLB390.

LEGL940 Transnational Organised Crime

Spring Wollongong On Campus

Credit Points: 8**Contact Hours:** Spring WebCT and 4 days compulsory intensive classes**Pre-requisites:** LEGL 911 International Criminal Law**Assessment:** Class presentations and research paper

Subject Description: All students will undertake a common core module on the analysis and structure of transnational organised crime, including the sociology of the development of such crime. Thereafter, students will choose one case study on serious organised crime to be selected from Terrorism, Banking Fraud, Firearms Trafficking, Narcotics, People Trafficking, Environmental Crime, Maritime Crime and Intellectual Property Crimes. Examples and case studies will be provided by relevant experts from Government and Commerce.

LEGL950 Transnational Crime Prevention Research Project

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 8**Contact Hours:** Autumn , Spring**Pre-requisites:** 24 credit points of LEGL subjects**Assessment:** 10,000 word dissertation.

Subject Description: Students will research and write a dissertation of approximately 10,000 words, on a subject selected by the student and approved by the subject coordinator. The student should approach the topic from an international and comparative law perspective drawing together different threads of the Master of Transnational Crime Prevention (MTCP) program undertaken by the student in light of the students experience and background. Where appropriate, assistance from external experts is encouraged.

LEGL951 Special Studies in Transnational Crime and Prevention

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 8**Contact Hours:** Autumn , Spring**Pre-requisites:** 24 credit points of LEGL subjects**Assessment:** 5,000 word essay

Subject Description: This subject permits the inclusion in the Master of Transnational Crime Prevention (MTCP)

program of an in depth study of a particular aspect of transnational crime prevention within the specialisation of a visiting expert, which would otherwise not be offered by the Faculty.

LLB 843 Professional Practice

Autumn Wollongong Distance

Spring Wollongong Distance

Credit Points: 8**Contact Hours:** Autumn , Spring**Pre-requisites:** Bachelor of Laws degree or equivalent**Co-requisites:** LLB844

Assessment: Workshops, small group activities, assignments, reflective journal, professional experience component, report.

Subject Description: An introductory program which will provide frameworks, foundations and strategies for the other Practice Subjects of the course. The subject contains seven modules: Professional Responsibility and Competent Practice; Problem Analysis Skills; Dispute Resolution Skills; Cross-cultural Communication Skills; Electronic Research Skills; Writing and Drafting Skills and Professional Experience Program. Students attend on-campus for the first week of the Course, and thereafter meet the requirements of the Professional Experience program in law-related employment or in a placement arranged by the Practical Legal Training Unit. The requirements of this subject are not completed until all components of professional experience.

LLB 844 Practice Management

Autumn Wollongong Distance

Spring Wollongong Distance

Credit Points: 8**Contact Hours:** Autumn , Spring**Pre-requisites:** Bachelor of Laws degree or equivalent**Co-requisites:** LLB843

Assessment: The completion of a workbook, several assignments, attend and actively participate in a seminar.

Subject Description: This subject will introduce students to the statutory and professional requirements in relation to clients' Trust monies and securities, and to principles of practice management including computerised accounting and recording systems, costing, risk management and related matters. The subject contains three inter-related modules: Trust and Office Accounting; and Law Office Management.

LLB 845 Conducting Litigation

Autumn Wollongong Distance

Spring Wollongong Distance

Credit Points: 16**Contact Hours:** Autumn , Spring**Pre-requisites:** Bachelor of Laws degree or equivalent**Co-requisites:** LLB843 and LLB844

Assessment: A combination of workshops, self-directed learning, assignments, Court visits, and interactive legal files.

Subject Description: The subject is organised in seven modules: Litigation Strategy Workshop; Civil Litigation Practice; Criminal Law Practice; Family Law Practice; Advocacy Workshop; Administrative Law Practice and Environmental Law Practice.

LLB 846 Commercial and Property Practice

Autumn	Wollongong	Distance
Spring	Wollongong	Distance

Credit Points: 16**Contact Hours:** Autumn , Spring**Pre-requisites:** Bachelor of Laws degree or equivalent**Co-requisites:** LLB843 and LLB844**Assessment:** Assessment involves a combination of workshops, seminars, an auction report, workbook exercises, assignments, and conduct of a legal file.**Subject Description:** The subject is delivered in 8 modules: Commercial Planning; Revenue Implications; Real Property Transactions; Commercial Contracts; Government Commercial Transactions; Trusts, Wills and Estate Planning; Probate and Estate Administration; Small Business Practice. The subject provides an overview of particular aspects of commercial and property transactions, and related matters which affect clients in planning their business and personal affairs.**LLB9100 Introduction to Legal Systems**

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus

Credit Points: 8**Contact Hours:** Autumn 2S, Spring**Assessment:** To be advised**Subject Description:** An overall perspective on the Australian legal system and its role in the Australian social order; an introduction to the sources and authority of legal rules, the nature of legal institutions and practices, legal materials, reasoning and terminology. Aspects of substantive law will be used to illustrate general principles.**LLB9210 Law of Contracts**

Spring	Wollongong	On Campus
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Credit Points: 8**Contact Hours:** Spring 1L, 2S**Co-requisites:** LLB9100**Assessment:** Mid session assignment; class participation and final examination.**Subject Description:** LLB9210 introduces students to the substantive law of contract. Using the casebook method, students study the legal principles governing the formation, performance and discharge of contracts. Topics covered include the requirements for a valid contract (agreement, consideration and intention to create legal relations), finding and interpreting the terms of a contract, the impact of vitiating factors (such as misrepresentation, mistake, undue influence, duress and unconscionability), the operation of the doctrines of privity and frustration, and the consequences of performance, defective performance or non performance of a contract.**LLB9300 Remedies and Procedure**

Autumn	Wollongong	On Campus
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Credit Points: 8**Contact Hours:** Autumn 2S**Pre-requisites:** LLB9210 and LLB9307**Assessment:** Class participation, assignment, examination**Subject Description:** The Remedies component of this subject explores the major legal and equitable remedies available in a civil action. These judicial remedies are considered according to the particular purpose or goal that they are intended to achieve, including compensation, punishment, restitution and coercion. In addition, some attention is given to non-judicial (or 'self help') remedies. The Civil Procedure component of the subject examines pre-trial procedure in civil actions in the Supreme Court of New South Wales. Topics covered include determining who may be a party to the proceedings; choosing originating process; serving court process; pleading; bringing proceedings to an early end; obtaining discovery and administering interrogatories.**LLB9301 Evidence**

Spring	Wollongong	On Campus
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Credit Points: 8**Contact Hours:** Spring 1L, 2S**Pre-requisites:** LLB9210**Assessment:** Research essay, moot or assignment, class participation and final examination.**Subject Description:** Students will be introduced to the rules relating to the sources and admissibility of evidence in civil and criminal trials. Topics will include the burden and standard of proof; the examination of witnesses; credibility, character and tendency evidence; documentary evidence; and the rules in relation to opinion evidence, hearsay, confessions and admissions; illegally obtained evidence; discretions and warnings.**LLB9302 Law of Business Organisations**

Autumn	Wollongong	On Campus
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Credit Points: 8**Contact Hours:** Autumn 1L, 2S**Pre-requisites:** LLB9210**Assessment:** Assignments and examination.**Subject Description:** The subject introduces the central concerns of a law of organisations, and of the law of business organisations, and the public policies informing the development of the Australian legal response. The range of organisations available for business and non-business purposes and their legal regulation are overviewed. Partnerships and companies and their legal regulations are considered in depth, including current policy issues.**LLB9303 Family, Children and Welfare**

Autumn	Wollongong	On Campus
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Credit Points: 8**Contact Hours:** Autumn 2S**Pre-requisites:** LLB9100**Assessment:** Essay; class participation; and final examination.**Subject Description:** To develop in students a satisfactory level of understanding of all aspects of the Family Law Act and related legislation.

LLB9304 Criminal Law and the Process of Justice

Autumn Wollongong On Campus

Credit Points: 8**Contact Hours:** Autumn 1L, 2S**Assessment:** Essay and examination

Subject Description: This subject is an introduction to: concepts used in criminal laws; principles of criminal liability; major categories of offences and selected defences; and aspects of criminal procedure.

LLB9305 Property and Trusts A

Autumn Wollongong On Campus

Credit Points: 8**Contact Hours:** Autumn 1L, 2S**Pre-requisites:** LLB9210

Assessment: Class participation, assignment and final examination

Subject Description: Consideration of the notion of property and interests in property; the distinctions between 'real, personal and intangible' property; legal and equitable interests in property and the notion of title; the notion of ownership; legal protection of property interests. The relationship of landlord and tenant; easements and covenants.

LLB9306 Property and Trusts B

Spring Wollongong On Campus

Credit Points: 8**Contact Hours:** Spring 1L, 2S**Pre-requisites:** LLB9305

Assessment: Class participation; assignment and final examination

Subject Description: The modern law of real property, including Torrens title, mortgages and co-ownership. Legal and equitable principles relating to the validity of gifts. The law of express trusts, including the powers and obligations of trustees, and remedies of the beneficiary for breach of trust.

LLB9307 Law of Torts

Autumn Wollongong On Campus

Credit Points: 8**Contact Hours:** Autumn 2 x 1L, 1S**Pre-requisites:** LLB9100

Assessment: Mid-session tests, assignment and examination.

Subject Description: Introduction to the law of civil wrongs, its aims, operation and relationship to other societal mechanisms of compensation. Topics include negligence; intentional torts; nuisance. The subject will consider the development of the common law, recent legislative reforms, and the operation of public policy granting relief in a variety of tort actions.

LLB9308 Public Law A

Autumn Wollongong On Campus

Credit Points: 8**Contact Hours:** Autumn 1L, 2S**Pre-requisites:** LLB9100

Assessment: Problem assignment and exam.

Subject Description: The notion of the state and state power; limitations on state power; the constitutional structure of the Australian nation-state; the notion of division and separation of powers; mechanisms of accountability and control of government officials, including access to government information, the Ombudsman, merits review tribunals and judicial review.

LLB9309 Public Law B

Spring Wollongong On Campus

Credit Points: 8**Contact Hours:** Spring 1L, 2S**Pre-requisites:** LLB9308

Assessment: Mid-session test; assignment; exam

Subject Description: Division of power between Commonwealth and State legislatures; the structure and powers of State and Commonwealth governments, with special emphasis on the limitation of the power of the Commonwealth; the place of the judiciary and judicial review of legislative and executive power; Commonwealth and State fiscal powers; express and implied constitutional rights; constitutional change.

LLB9312 Legal Theory

Spring Wollongong On Campus

Credit Points: 8**Contact Hours:** Spring 2S**Pre-requisites:** LLB9100

Assessment: Assignments; research essay; class participation

Subject Description: This subject addresses a range of fundamental issues in jurisprudence, revolving around the nature of law, the basis for legal authority, the scope and limits of law, and the relationship between law, morality and values such as justice, liberty and autonomy.

LLB9330 Law of Employment

Autumn Wollongong On Campus

Credit Points: 8**Contact Hours:** Autumn 1L, 2S**Pre-requisites:** LLB9210

Assessment: Class participation, essay/project and examination.

Subject Description: The rights and duties of individual employers and employees under common law and selected legislation, including: formation, content and termination of the contract of employment; implied duties of employers and employees; remedies at common law; unfair dismissal legislation; anti-discrimination law; unfair work contracts; occupational health and safety.

LLB9331 Intellectual Property Law

Autumn Wollongong On Campus

Credit Points: 8**Contact Hours:** Autumn 1L, 2S**Pre-requisites:** LLB9100

Assessment: Class participation, research essay, take-home examination

Subject Description: This subject provides an overview of the field of intellectual property law commencing with an analysis of the 2 major and oldest forms of intellectual property - copyright and patents. The course then moves on to the methods of protecting business reputation both at common law/equity, and through the registration of trade marks. Other more recent forms of intellectual property are also covered, such as plant breeder's rights, designs and circuit layouts.

LLB9332 Labour Relations Law

Spring Wollongong On Campus

Credit Points: 8

Contact Hours: Spring 2S

Pre-requisites: LLB9210

Assessment: Assignment, class participation, presentation and examination.

Subject Description: The legal regulation of collective relations between employers and employees under the Workplace Relations Act 1996 (Cth) and the Industrial Relations Act 1996 (NSW). Topics include: constitutional requirements; parties to an industrial dispute; powers of industrial tribunals (including natural justice); processes of award making and variation; collective bargaining and certified agreements; Australian Workplace Agreements; legal regulation of trade unions; liability for industrial action.

LLB9334 Environmental Law

Spring Wollongong On Campus

Credit Points: 8

Contact Hours: Spring 2S

Pre-requisites: LLB9100

Assessment: Take-home assignment, research essay, class participation/presentation of research progress/findings.

Subject Description: The goal of this subject is to enable candidates to develop a basic, critical understanding of the law in relation to environmental management in Australia, with particular emphasis on NSW, including the limitations of legal instruments in achieving environmental management and policy objectives, the assessment of development proposals and the role of the Land & Environment Court.

LLB9335 Anti-Discrimination Law

Spring Wollongong On Campus

Credit Points: 8

Contact Hours: Spring 1L, 2S

Pre-requisites: LLB9100

Assessment: Essay/research project, class participation and examination

Subject Description: An analysis and appraisal of laws prohibiting discrimination in Australia on various grounds, including: sex, marital status, race, disability, age, sexual preference and transgender. Laws prohibiting harassment and vilification will also be examined. The subject includes exploration of the aims and social context of anti-discrimination legislation, as well as related concepts such as equal opportunity, social justice and affirmative action. Examination of processes for complaints, dispute resolution and enforcement, and powers of investigative and adjudicatory bodies.

LLB9337 Comparative Studies in Law

Spring Wollongong On Campus

Credit Points: 8

Contact Hours: Spring 4 day intensive

Co-requisites: LLB9100

Assessment: Research essay and final examination

Subject Description: A comparison of the French civil law with the common law of England and Australia, with the objective of developing an appreciation of different legal systems and approaches.

LLB9343 International Law

Autumn Wollongong On Campus

Credit Points: 8

Contact Hours: Autumn 2S

Co-requisites: LLB9100

Assessment: research essay and final examination

Subject Description: Sources of international law; the relationship between domestic law and international law; the law of treaties; the structure of the international legal system; statehood, state jurisdiction, state responsibility, nationality and refugees.

LLB9344 Indigenous Peoples and Legal Systems

Autumn Wollongong On Campus

Credit Points: 8

Contact Hours: Autumn 2S

Pre-requisites: LLB9100

Assessment: Essays, research paper.

Subject Description: This subject is an introduction to the relationship between Indigenous and non-Indigenous laws and legal systems in Australia. It considers the nature and status of Aboriginal and Torres Strait Islander laws, and explores some of the specific legal issues of current relevance to Indigenous peoples in Australia. Topics include the impact of European colonisation, over-representation in the criminal justice system, land rights and native title, recognition of Aboriginal law, and self-determination.

LLB9350 Special Study in Law A

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 8

Contact Hours: Autumn, Spring

Pre-requisites: LLB9210

Assessment: Not available.

Subject Description: A study in depth of selected area of law.

LLB9351 Special Study in Law B

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 8

Contact Hours: Autumn, Spring

Pre-requisites: LLB9210

Assessment: Not available.

Subject Description: A study in depth of a selected area of law.

LLB9395 Legal Research and Writing

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 2

Contact Hours: Autumn , Spring

Assessment: Exercises, small-group presentation, class participation

Subject Description: An introduction to the location and use of primary legal materials, including the use of computers in retrieving legal material; observation of legal practice in courts and elsewhere; analysis of legal documents; development of clear, concise and simple styles of presenting ideas and arguments in writing; citation of legal materials.

SCIENCE SUBJECT DESCRIPTIONS

BIOL970 Advances in Conservation Biology

Autumn Wollongong On Campus

Credit Points: 12

Contact Hours: Autumn 6 hrs

Pre-requisites: Nil

Co-requisites: Nil

Assessment: Critical review paper & seminar; seminar, Land & Environment Court assignment; Practical reports; Field camp & report; Final examination.

Subject Description: This subject examines the science behind modern conservation biology, integrating ecology, ecological genetics & legislation. Emphasis is placed on understanding ecological & genetic principles, mastering lab. & field skills & elementary mathematical modelling, & then placing these in the context of current legislation & other conservation instruments. Students use these skills & knowledge to assess a recent issue in conservation biology, as a critical review of methodology & conclusions.

BIOL971 Advanced Topics in Marine & Terrestrial Ecology

Spring Wollongong On Campus

Credit Points: 12

Contact Hours: Spring 2 hrs lectures, 4 hrs tutorial/ practical per week

Pre-requisites: Nil

Co-requisites: Nil

Assessment: Research project or literature review; seminar presentation

Subject Description: Introduction to ecology - levels of organisation (individual, population, community and eco-system) and the importance of spatial and temporal variation. Experiments in ecology - field and laboratory, their design and analysis, including the detection of human impacts. Biotic interactions: the roles of competition, herbivory, predation, mutualisms and disturbance, in community structure and function. Behavioural ecology: innate vs learned behaviours and their effects on individual fitness, demography and community structure. Applied ecology: rehabilitation and ecological management. Literature review examining contemporary research in ecology (tailored to the specialisations of MSc students enrolled in the subject).

BIOL972 Ecological and Evolutionary Physiology

Autumn Wollongong On Campus

Credit Points: 12

Contact Hours: Autumn

Pre-requisites: Nil

Co-requisites: Nil

Assessment: Literature reports & project reports; seminar presentation; theory exam.

Subject Description: Physiological and biochemical responses of animals and plants to environmental variables (light intensity, temperature, water, salt content, gas composition and pressure). Physiological and behavioural adaptations of organisms to particular aquatic and terrestrial environments. Effect of organism size and phylogeny on physiological performance. Evolution of endothermy. Using allometry to predict and evaluate physiological performance.

Literature review examining contemporary research in physiology.

BIOL980 Biotechnology

Autumn Wollongong On Campus

Credit Points: 12

Contact Hours: Autumn 2 hrs lectures, 4 hrs tutorial/practical per week

Pre-requisites: Nil

Co-requisites: Nil

Assessment: Tutorial presentation; literature review/critique and presentation; practical/research project reports and presentation; theory examinations.

Subject Description: Recombinant DNA technology and genetic engineering of micro-organisms, plant cells and animal cells. Expression, production and purification of recombinant proteins, cytokines and hormones. Fermentation technology and industrial scale-up. Applications of Biotechnology to the fields of human therapeutics, agriculture and diagnostics. Bioinformatics, ethical and patent issues of Biotechnology.

BIOL981 Molecular Cell Biology

Autumn Wollongong On Campus

Credit Points: 12

Contact Hours: Autumn 2 hrs lecture, 4 hours tutorial/practical per week.

Pre-requisites: Nil

Co-requisites: Nil

Assessment: Literature review & seminar presentation on advanced topics in Molecular Cell Biology; mid-session quiz, practical report and student laboratory report book; poster, theory exam; practical exam.

Subject Description: This subject covers many specific aspects of cell biology, including cell and tissue structure, protein sorting mechanisms, secretion, membrane transport, energetics, signal transduction, apoptosis, cellular and molecular genetics of development, the cell cycle and cancer. In addition, focused lab-based practicals are offered which will provide an understanding of the techniques used for studying cell biology. These include: cell and organelle isolation and analysis, growth of various cell types in aseptic culture, observation and manipulation of cellular functions and cell surface labelling and protein blotting.

BIOL982 Cellular and Molecular Immunology

Spring Wollongong On Campus

Credit Points: 12

Contact Hours: Spring 2 hrs lectures per week, 4hrs tutorial/practical per week

Assessment: Research project, literature review, theory examination(s); seminar presentation.

Subject Description: Cells (T cells, B cells, macrophages, dendritic cells, etc.) and organs (thymus, lymph nodes, etc.) of the immune system. Antigen presenting cells, clonal selection theory and the humoral response. Molecules of the immune system (cell surface receptors, MHC, cytokines). B and T cell activation. Antibody structure and function, generation of antibody diversity. Innate immunity,

complement, phagocytosis. Tolerance and autoimmunity. ELISA techniques, monoclonal antibodies, antibody engineering, phage antibodies, flow cytometry. HIV and AIDS.

BIOL983 Research Methods in Biotechnology

Autumn Wollongong On Campus

Credit Points: 12

Contact Hours: Autumn 5 hrs per week

Pre-requisites: Nil

Co-requisites: Nil

Assessment: Literature research project; presentation of one seminar; written examination.

Subject Description: The role of proteins in biotechnology. Aspects of protein 3-dimensional structure & fold, ligand binding & catalysis important in biotechnology. Extraction & recovery of proteins in the biotechnology industry. Purification & characterisation of proteins. Animal cell & tissue culture: advanced culture techniques, flow cytometry & genetic engineering. Antibody technology: radio-immunoassay & enzyme-immunoassay techniques, signal amplification strategies. Transgenics: current status & prospects. Recent advances in gene cloning & screening. Resistance of plants to disease & abiotic stress. Genetic engineering of plants. Bioremediation using plants & microbes. Vaccines: antigen selection, presentation & delivery.

BIOL984 Applied Bioinformatics

Spring Wollongong On Campus

Credit Points: 12

Contact Hours: Spring

Pre-requisites: Nil

Co-requisites: Nil

Assessment: Individual practical exercises; written formal report; presentation of seminar; written examination.

Subject Description: A revolution is underway in Biological Sciences due to the impact of Genomics, Transcriptomics and Proteomics. These new technologies have transformed Biology from a data-poor to a data-rich science. Bioinformatics is concerned with the utilisation of this new data. Bioinformatics will be explored in lectures and computer-based practicals. Databases for nucleic acid and protein sequences, structures and other parameters of biological molecules, plus linkages to the scientific literature, will be used to extract information, compare and analyse biological data. Each student will prepare a literature research paper and deliver a seminar on a relevant aspect of Bioinformatics.

BIOL991 Major Research Project

Spring Wollongong On Campus

Autumn Wollongong On Campus

Summer 05/06 Wollongong On Campus

Credit Points: 24

Contact Hours: Spring, Autumn, Summer 2005/2006

Subject Description: The student will undertake a research project on a topic in Biotechnology and present a research report and seminar on a topic chosen by the supervising staff. The research can be undertaken in collaboration with industry or another recognised institution.

BIOL992 Literature Review Project

Autumn Wollongong On Campus

Spring Wollongong On Campus

Summer 05/06 Wollongong On Campus

Credit Points: 12

Contact Hours: Autumn, Spring, Summer 2005/2006

Pre-requisites: Nil

Co-requisites: Nil

Assessment: Literature report, seminar and other assessment as directed by the Head of Department.

Subject Description: Under the supervision of staff (nominated by the Masters Coordinator) the student will survey the biological literature and present a written report and a seminar on a topic chosen by the supervisory academic.

BIOL993 Research Project

Autumn Wollongong On Campus

Spring Wollongong On Campus

Summer 05/06 Wollongong On Campus

Credit Points: 12

Contact Hours: Autumn, Spring, Summer 2005/2006

Pre-requisites: Nil

Co-requisites: Nil

Assessment: Supervisor's assessment 5%; seminar 20%; project report 75%.

Subject Description: Under the supervision of staff (nominated by the Masters Coordinator) the student will undertake a research project and present a written report and a seminar on a topic chosen by the supervising staff.

BIOL999 Major Thesis

Credit Points: 48

Not on offer in 2005

Subject Description: Thesis research to be chosen from the current research areas within the Department listed above. Topic to be arranged in consultation with relevant staff and approved by Head of Department.

CHEM910 Research Skills Training

Annual Wollongong On Campus

Autumn Wollongong On Campus

Spring Wollongong On Campus

Spring2005/

Autumn2006 Wollongong On Campus

Credit Points: 12

Contact Hours: Annual, Autumn, Spring, Spring 2005/ Autumn 2006

Pre-requisites: Appropriate degree. Compulsory for all students undertaking an MSc in Chemistry by coursework, except for students who have passed CHEM411 or completed the subject in a Graduate Diploma in Science (Chemistry). Not to count with CHEM411 or CHEM911

Assessment: Written/oral assignments and examinations (as appropriate). Research Skills Directed Studies 67%; Generic Skills Modules 33%.

Subject Description: This subject provides training in generic research skills such as data interpretation and analysis, library skills, literature evaluation, quality control and

assurance, and Occupational Health and Safety. In addition, students will carry out directed studies in topics of advanced chemistry, chosen to complement their research interests, in discussion with the course Co-ordinator.

CHEM911 Selected Topics in Chemistry

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus
Spring2005/		
Autumn2006	Wollongong	On Campus

Credit Points: 8

Contact Hours: Autumn , Spring , Spring2005/Autumn2006

Pre-requisites: Appropriate degree. Not to count with CHEM910

Assessment: Written/oral assignments and examinations (as appropriate)

Subject Description: This subject provides training in generic research skills such as data interpretation and analysis, library skills, literature evaluation, quality control and assurance, and Occupational Health and Safety. In addition, students will carry out directed studies in topics of advanced chemistry, chosen to complement their other subjects, in discussion with the course Co-ordinator.

CHEM915 Advanced Chemistry Laboratory Project

Spring	Wollongong	On Campus
Autumn	Wollongong	On Campus
Annual	Wollongong	On Campus
Spring2005/		
Autumn2006	Wollongong	On Campus

Credit Points: 12

Contact Hours: Spring 168hrs lab work, Autumn 168hrs lab work, Annual 168 hrs lab. work, Spring2005/ Autumn2006

Pre-requisites: Appropriate degree.

Assessment: Thesis: 70%; Poster: 15%; Seminar: 15%

Subject Description: Under the supervision of staff appointed by the Head of Department, students will undertake a laboratory project and present a written report, poster and a seminar on a topic chosen by the supervising staff.

CHEM919 Literature Report in Chemistry

Spring	Wollongong	On Campus
Autumn	Wollongong	On Campus
Annual	Wollongong	On Campus
Spring2005/		
Autumn2006	Wollongong	On Campus

Credit Points: 12

Contact Hours: Spring, Autumn, Annual, Spring2005/ Autumn2006

Pre-requisites: Appropriate degree

Co-requisites: None

Assessment: Substantial report 85%, seminar 15%

Subject Description: Students in this subject undertake a literature search on recent advances in a research topic in chemistry. The topic is chosen in consultation with their supervisor and the course coordinator. A substantial report is the written outcome and the students meet in regular tutorials with their supervisor to discuss issues raised in the topic and compilation of the report.

CHEM920 Major Research Thesis

Credit Points: 48

Not on offer in 2005

Pre-requisites: Appropriate degree

Assessment: Major thesis

Subject Description: Topic to be arranged in consultation with the Departmental Head and approved by the Board of Research and Postgraduate Studies. Involves supervised research work.

CHEM923 Advanced Topics in Chemistry Part 1 (Spring)

Spring	Wollongong	On Campus
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Credit Points: 8

Contact Hours: Spring

Pre-requisites: Appropriate degree

Assessment: Written/oral assignments and examinations (as appropriate)

Subject Description: Part 1 of CHEM910

CHEM924 Advanced Topics in Chemistry Part 2 (Autumn)

Autumn	Wollongong	On Campus
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Credit Points: 8

Contact Hours: Autumn

Pre-requisites: CHEM923

Assessment: Written/oral assignments and examinations (as appropriate)

Subject Description: Part 2 of CHEM910

CHEM930 Selected Topics in Medicinal Chemistry

Annual	Wollongong	On Campus
Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus
Spring2005/		
Autumn2006	Wollongong	On Campus

Credit Points: 12

Contact Hours: Annual 4 hrs lectures + 1 hr/week contact with supervisor, Autumn , Spring , Spring2005/Autumn2006

Pre-requisites: Entry is subject to approval of Head of Department

Assessment: Written examination; essays (2); seminar

Subject Description: Specialist courses in aspects of medicinal chemistry and related areas (drug design, synthesis, pharmacology, computer modelling and structural studies). Directed Medicinal Chemistry studies, in an area related to the student's individual research project.

CHEM940 Contemporary Topics in Biomolecular Chemistry

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus
Annual	Wollongong	On Campus
Spring2005/		
Autumn2006	Wollongong	On Campus

Credit Points: 12

Contact Hours: Autumn L/T 6 hours/week; Lab 4 hours/week, Spring L/T 6 hours/week; Lab 4 hours/week,

Annual , Spring2005/Autumn2006 .

Pre-requisites: None

Co-requisites: None

Assessment: Subject coursework 66%, written report 34%

Subject Description: This unit gives students a good grounding in modern aspects of biomolecular chemistry. The exact course of study will vary depending on the student's background and interests. It may include studies of advanced methods of synthesis; studies of molecular structure via spectroscopy and modelling; and biological chemistry and bioinformatics. In addition, students undertake a small project in which they are given a research problem in biomolecular science to solve. This may take the form of a synthetic target or data to analyse. Students will present their findings by means of a report.

CHEM950 Contemporary Topics in Analytical and Environmental Chemistry

Autumn	Wollongong	On Campus
Spring	Wollongong	On Campus
Annual	Wollongong	On Campus
Spring2005/ Autumn2006	Wollongong	On Campus

Credit Points: 12

Contact Hours: Autumn L/T 6 hours/week; Lab 4 hours/week, Spring L/T 6 hours/week; Lab 4 hours/week, Annual , Spring2005/Autumn2006

Pre-requisites: None

Assessment: Subject coursework 66%; written report 34%

Subject Description: This unit gives students a good understanding in modern aspects of environmental chemistry and related analytical techniques. The exact course of study will vary depending on the student's background and interests. It may include modules of study of: atmospheric processes and their chemistry; water and soil chemistry and analysis; environmental sampling; instrumental analysis; Quality Control/Quality Assurance/Total Quality Management. In addition, students undertake a small project in which they are given a research problem in environmental chemistry to solve. This may take the form of a pollution or remediation/disposal problem or data to analyse. Students will present their findings by means of a report.

EESC901 Advanced Plate Tectonics, Macrotopography and Earth History

Autumn	Wollongong	On Campus
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Credit Points: 12

Contact Hours: Autumn 2hrs L/week, tutorials/practicals up to 2hrs/week, 5 days field work

Exclusions: GEOS923

Assessment: Assignment1 20%, Assignment 2 and seminar 20%, Field trip report 1 10%, Field trip report 2 10%, Final examination 40%

Subject Description: This subject is concerned with the theory of plate tectonics and its role in the formation of Earth structures and topography. Large-scale processes are examined in relation to the controls of topography and bathymetry. Relationships between plates and ocean basins, continental margins, continental interiors and sedimentary basins are evaluated. Earth structure is examined along with earthquakes and deformation (stress, strain, faulting and folding). Earth history is considered in relation to past

mountain belts, continents and oceans. Practical work is a series of tutorials designed to reinforce the material covered in lectures. Field work consists of two field trips.

EESC902 Advanced Coastal Environments: Processes and Management

Spring	Wollongong	On Campus
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Credit Points: 12

Contact Hours: Spring

Assessment: As appropriate from class tests, essays, research project, practical work, final examination

Subject Description: This subject examines sedimentary and ecological processes on the coast. Coastal management is considered from geomorphological and ecological perspectives. Topics include the morphology and development of coastal landforms, particularly estuaries, deltas, chenier and beach-ridge plains, beaches and dunes, and coral reefs. Emphasis is placed on interpreting Holocene morphostratigraphy and morpho-dynamics, reconstructing sea-level changes and the effect of sea-level changes on coastal environments, and on understanding longer-term ecological and geomorphological processes.

EESC903 Advanced Fluvial Geomorphology & Sedimentology

Autumn	Wollongong	On Campus
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Credit Points: 12

Contact Hours: Autumn

Assessment: As appropriate from class tests, essays, research project, practical work, final examination

Subject Description: Rivers play a dynamic role in shaping the Earth's landforms (geomorphology), constructing sedimentary sequences of economic importance (sedimentology), and presenting flood and erosion hazards, all of which greatly influence human use of the Earth's surface. This subject examines processes forming and modifying contemporary drainage basins, interprets fluvial sedimentary records and relates changes in these records to variations in climate and depositional environment. Particular attention is given to human modification and the management of river systems.

EESC904 Advanced Geographic Information Science

Spring	Wollongong	On Campus
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Credit Points: 12

Contact Hours: Spring 2 x 1hr lectures, 1 x 3hr practical

Assessment: As appropriate from class tests, essays, research project, practical work, final examination

Subject Description: Geographical information Science is concerned with the theory and analysis of spatial data, particularly using GIS. Practical applications in natural resource management, urban and regional planning, pollution management, distribution of plant and animal communities, natural hazards, medical geography, economic and environmental geology and environmental impact assessment are emphasised. Topics include data acquisition, spatial databases and analysis, georeferencing, digital terrain modelling, and accuracy.

EESC905 Advanced Remote Sensing

Autumn Wollongong On Campus

Credit Points: 12**Contact Hours:** Autumn**Assessment:** As appropriate from class tests, essays, research project, practical work, final examination**Subject Description:** This subject examines advanced principles and techniques for identifying and mapping environmental features using images obtained from satellites and aircraft. Satellite imagery from Landsat 7 ETM, SPOT, and EO-1 Hyperion, in addition to airborne hyperspectral imagery from Hymap and CASI will be examined. Case studies will be used to illustrate the multidisciplinary scope of remote sensing. Topics include environmental monitoring, vegetation analysis, geological exploration and urban planning. Practical work involves the development of interpretation skills as well as computer-based digital analysis.**EESC910 Advanced Social Spaces: Rural and Urban**

Spring Wollongong On Campus

Credit Points: 12**Contact Hours:** Spring 1x2hr lecture/workshop, 1x2hr practical**Assessment:** Exam 25%, Census analysis assignment 20%, Critical analysis exercise 10%, workshops 15%, essay 30%**Subject Description:** This subject requires postgraduate students to critically assess how geographers and others have theorised the global and national processes that shape the social, economic and spatial characteristics of Australian cities and regions. Students will build upon insights from previous study to explore how contemporary urban and rural landscapes have been formed and how they are constantly being reshaped. They will draw upon theoretical perspectives including political economy and post-structuralism to explore varying accounts of these socio-spatial processes. Examples such as industry restructuring, rural/urban mythology and the development of Australian and overseas cities will be used to make connections between processes at the various scales and specific aspects of Australian urban and rural life. Through workshops and assignments, students will further develop skills and knowledge in areas such as media analysis and the use of census and other data sources. In addition, students will complete an essay in which they evaluate theoretical perspectives on a topic chosen in conjunction with the subject co-ordinator.**EESC911 Advanced Isotope Geochemistry**

Autumn Wollongong On Campus

Credit Points: 12**Contact Hours:** Autumn**Assessment:** As appropriate from essays, reports, seminars, final examination**Subject Description:** Topics include sample preparation; mass spectrometry; applications of both radiogenic and stable isotopic systems; geochronology modelling; petrogenetic modelling.**EESC912 Advanced Soils, Landscapes and Hydrology**

Spring Wollongong On Campus

Credit Points: 12**Contact Hours:** Spring**Assessment:** As appropriate from class tests, essays, research project, practical work, final examination**Subject Description:** The interdependence of landform, hydrology and soil, together with time and place, are the major factors influencing landscape evolution. This subject examines denudation of highlands; survival of ancient landscapes; climatic and geomorphic controls on landforms; erosion; weathering processes and the formation of soils, laterites, silcretes and calcretes; soil surveying: environmental records of lakes; groundwater and surface-water processes and chemistry; dating of land-surfaces and groundwater; the hydrological cycle.**EESC917 Advanced Spaces, Places and Identities**

Autumn Wollongong On Campus

Credit Points: 12**Contact Hours:** Autumn 2hr L/T, 3 hr workshops**Assessment:** Term paper, exam, seminar presentation, Research Report, Interview transcript, Literature Review**Subject Description:** The lecture content is designed to enable postgraduate students to build upon their geographical knowledge by critically studying how geographers have conceptualised space/place. Drawing upon different approaches, this subject investigates the connections that have been made between place making processes and identity including gender, ethnic, sexual, tourist and national identity. The approaches drawn upon include structuralism and post-structuralism. Underpinning the design of the workshops is the objective that students will learn qualitative research skills. In these workshops, students are encouraged to gain proficiency in three areas: qualitative research, team-work and presentation skills. Employers often seek postgraduate students with demonstrated skills in these three areas. This subject is designed to enable postgraduate students to develop these skills.**EESC918 Advanced Environmental and Heritage Management**

Spring Wollongong On Campus

Credit Points: 12**Contact Hours:** Spring 2 x 1hr lectures, 1 x 3hr practical**Assessment:** Essay 20%, Practical reports 10%, Research report 50%, Final examination 20%**Subject Description:** This subject presents advanced geographic perspectives on environmental and heritage management. We examine environmental and cultural values and how they are translated into practice to protect and manage landscapes, places, resources and ecosystems. Consequently, the subject will consider definitions of concepts such as environment, nature and heritage as well as legislative and policy frameworks in Australia and overseas. These themes will be pursued through studies of issues such as indigenous land and heritage management, wilderness identification and management, catchment management and restoration of ecosystems and the built environment. The subject is suitable for practitioners seeking to update their academic knowledge as well as for postgraduate students wanting to further develop their applied research skills.

EESC921 Advanced Environmental Geology

Spring Wollongong On Campus

Credit Points: 12**Contact Hours:** Spring**Assessment:** As appropriate from essays, reports, seminars, final examination**Subject Description:** Topics include the relationship between mining operations and communities; downstream pollution problems; mineralogical composition and types of associated dusts; composition of mine waters and stack emissions, the reclamation of mine sites; effects of mine subsidence; the composition, uses and disposal of waste residues; environmental impact studies; alienation of resources; conflicts of interest in mining operations.**EESC950 Advanced Topic A**

Autumn Wollongong On Campus

Spring Wollongong On Campus

Annual Wollongong On Campus

Credit Points: 12**Contact Hours:** Autumn , Spring , Annual**Assessment:** As appropriate from essays, reports, seminars, final examination**Subject Description:** This project will consist of a library and/or laboratory study on some topical aspect of earth and environmental sciences equivalent to one third of full-time study.**EESC951 Advanced Topic B**

Autumn Wollongong On Campus

Spring Wollongong On Campus

Annual Wollongong On Campus

Credit Points: 8**Contact Hours:** Autumn , Spring , Annual**Assessment:** As appropriate from essays, reports, seminars, final examination**Subject Description:** This project will consist of a library and/or laboratory study on some topical aspect of earth and environmental sciences equivalent to one third of full-time study.**ENVE985 Environmental Engineering**

Autumn Wollongong On Campus

Credit Points: 8**Contact Hours:** Autumn 2L, 2T**Assessment:** Laboratory Reports and Examinations.**Subject Description:** This subject takes an engineering approach to solving problems in air, noise and water pollution. It considers the sources, effects and methods of control of the pollutants, as well as legislative requirements. The lecture and tutorial components of this subject are complemented by extensive field and laboratory sampling, measuring and analysis.**ENVI910 Directed Studies in Environmental Chemistry**

Spring Wollongong On Campus

Autumn Wollongong On Campus

Annual Wollongong On Campus

Credit Points: 12**Contact Hours:** Spring See office door for availability, or by appointment, Autumn See office door for availability, or by appointment, Annual See office door for availability, or by appointment**Pre-requisites:** Must be enrolled in Environmental Science Postgraduate program**Assessment:** Continuous assessment, a final exam and a major case study report.**Subject Description:** The chemistry of water and air pollution. Toxins in the environment. Sources, sinks and transport processes, methods for quantitative measurement and control.**ENVI911 Directed Studies in Ecology**

Spring2005/

Autumn2006 Wollongong On Campus

Autumn Wollongong On Campus

Annual Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 12**Contact Hours:** Spring2005/Autumn2006, Autumn , Annual 26hrs L,13hrs T,proj, Spring**Pre-requisites:** Must be enrolled in Environmental Science Postgraduate program**Assessment:** Continuous assessment and final examinations for coursework (autumn session); major case study report and seminar (either session)**Subject Description:** This subject includes a coursework component and an independent research component. The coursework provides an introduction to the basics of Biology and the principles of ecology and evolution, including the diversity of organisms, population growth and interactions, principles of evolution, impacts of humans on ecosystems. The research project focusses on a current issue in field work, analysis and communication.**ENVI912 Directed Studies in Land Resources**

Annual Wollongong On Campus

Autumn Wollongong On Campus

Spring Wollongong On Campus

Spring2005/

Autumn2006 Wollongong On Campus

Credit Points: 12**Contact Hours:** Annual, Autumn, Spring, Spring2005/ Autumn2006**Pre-requisites:** Must be enrolled in Environmental Science Postgraduate program**Subject Description:** This subject will examine coastal, river, water and soil managements focussing on human induced changes to these natural systems. Emphasis will be given to geomorphological processes, remote sensing of land and biological resources.**ENVI913 Directed Studies in Earth Sciences**

Annual Wollongong On Campus

Autumn Wollongong On Campus

Spring Wollongong On Campus

Credit Points: 12

Contact Hours: Annual , Autumn , Spring

Pre-requisites: Must be enrolled in Environmental Science Postgraduate program

Subject Description: Topics include the relationship of mining operations to communities; composition of mine waters, dusts and stack emissions; reclamation of mine sites; effects of mine subsidence; the composition, uses and disposal of waste residues; environmental effects of pollution, erosion and deposition; environmental impact studies.

ENVI919 Directed Studies in Environmental Science

Summer 05/06	Wollongong	On Campus
Spring	Wollongong	On Campus
Autumn	Wollongong	On Campus
Annual	Wollongong	On Campus
Spring2005/		
Summer2005	Wollongong	On Campus
Spring2005/		
Autumn2006	Wollongong	On Campus

Credit Points: 12

Contact Hours: Summer 2005/2006, Spring, Autumn, Annual, Spring2005/Summer2005, Spring2005/Autumn2006 By appointment with coordinator.

Pre-requisites: Must be enrolled in Environmental Science Postgraduate program or with permission of the Head of Environmental Science.

Assessment: Major written report based on work completed.

Subject Description: In this subject students will undertake either a major literature review or carry out a practical study on a problem of current environmental interest. The work will normally be related to one of the ongoing activities of the Unit, giving the student the opportunity to become well acquainted with a particular aspect of environmental science. International students will be encouraged to undertake activities with significant relevance to their home countries.

ENVI920 Scientific Basis of Environmental Management

Spring	Wollongong	On Campus
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Credit Points: 8

Contact Hours: Spring 2 x 2hr lectures plus at least one field trip

Pre-requisites: Must be enrolled in MEnvSc

Subject Description: This course gives a comprehensive overview, with case studies, of the scientific basis of environmental management by adopting a multi-disciplinary approach to the scientific understanding of how major ecosystems work. The science of aquatic, alpine, forest, grassland and semi-arid environments, along with hazardous waste (including radioactive) management will be amongst those discussed. Students will complete a team project that develops interdisciplinary skills in addressing appropriate management strategies.

ENVI921 Environmental Planning

Autumn	Wollongong	On Campus
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Credit Points: 8

Contact Hours: Autumn 2 x 2 hr lectures

Subject Description: This course presents a comprehensive

overview of environmental planning in government and industry. Students are introduced to the basic principles followed by presentations from staff from a wide range of organisations involved in environmental planning. The mechanisms, difficulties and benefits of current planning activities in Australia are explained. While the emphasis is on the Australian situation, reference to activities in other countries and the global situation of environmental planning is included.

ENVI930 Thesis

Spring	Wollongong	On Campus
Autumn	Wollongong	On Campus
Annual	Wollongong	On Campus
Spring2005/		
Autumn2006	Wollongong	On Campus

Credit Points: 24

Contact Hours: Spring By appointment with coordinator., Autumn By appointment with coordinator., Annual By appointment with coordinator., Spring2005/Autumn2006 By appointment with coordinator.

Subject Description: A research topic in an area of environmental science will be selected by each candidate after consultation with the degree co-ordinator. The thesis will be supervised by staff from the appropriate department or departments.

ENVI931 Thesis

Spring2005/		
Autumn2006	Wollongong	On Campus
Annual	Wollongong	On Campus

Credit Points: 32

Contact Hours: Spring2005/Autumn2006 , Annual

Subject Description: A research topic in an area of environmental science will be selected by each candidate after consultation with the degree co-ordinator. The thesis will be supervised by staff from the appropriate department or departments.

MARE973 Advanced Topics in Fisheries & Aquaculture

Spring	Wollongong	On Campus
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Credit Points: 12

Contact Hours: Spring 2 hrs lect pw; 4 hrs tuts/practs pw

Pre-requisites: Nil

Co-requisites: Nil

Assessment: Theory examinations; research project reports and presentation; literature review/critique

Subject Description: This subject will provide an overview of fisheries biology and aquaculture (vertebrate and invertebrate) including: the diversity of Australian and international fisheries and their key challenges; relevant ecological issues (population dynamics, transport processes, stock identification); predictive modelling, fisheries management; secondary impacts of fisheries; the diversity of aquaculture; case studies in aquaculture; ecological impacts, potential for enhancement of fisheries. Literature review examining contemporary research in ecology (tailored to the specialisations of MSc students enrolled in the subject).

